



Cellebrite  
**READER**

## User Manual

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# 1. Introduction

Welcome to the Cellebrite Reader. The Cellebrite Reader enables you to open reports, perform your own search and analysis on the analyzed information, and perform actions such as generate reports, create entity bookmarks, and more.

The Cellebrite Reader is an application that reads .ufdr files, the report files generated from analyzed data of a physical, file system, or logical extraction by Physical Analyzer and Logical Analyzer. You can also view UFED Cloud extraction reports in the Cellebrite Reader.

The Cellebrite Reader is available to everyone, and is typically distributed by users of Physical Analyzer and Logical Analyzer. No installation or licensing is required.

## 2. Getting started

This section includes the following:

[Acquiring Cellebrite Reader \(below\)](#)

[Opening Cellebrite Reader \(on the next page\)](#)

[Opening a file for analysis \(on page 14\)](#)

[Opening an encrypted zip file \(on page 14\)](#)

[Saving a project session \(on page 16\)](#)

[Loading a project session \(on page 19\)](#)

[Closing Cellebrite Reader \(on page 19\)](#)

[Keyboard shortcuts \(on page 19\)](#)

### 2.1. Acquiring Cellebrite Reader

You can acquire Cellebrite Reader in the following ways:

- » Through the Physical Analyzer installation
- » Through the Logical Analyzer installation
- » When generating a UFDR file in Physical/Logical Analyzer, select the **Include Reader** check box.
- » Download from [MyCellebrite](#)

### 2.1.1. System requirements

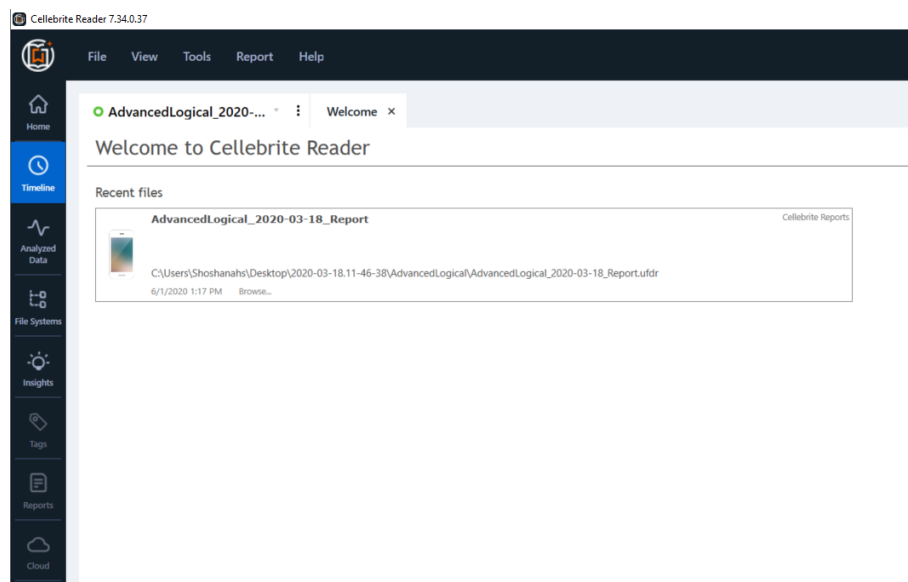
PC	Windows compatible PC with Intel i5 or compatible
Operating System	Microsoft Windows 10, 64-bit Microsoft Windows 8.x, 64-bit
Memory (RAM)	16 GB
Space requirements	120 MB of free disk space for installation
Additional Requirements	Microsoft .Net version 4.6.2 Windows Media Player (default version for installed OS or higher) to use the Capture tool and play video playback.
Permissions	If you intend to activate the application using a hardware license key (dongle) provided by Cellebrite, you must have administrative rights over the computer.

### 2.2. Opening Cellebrite Reader

The Cellebrite Reader does not require installation; you can save and open the application from any computer or USB drive.

1. Save the **UFEDReader.exe** file to the desired location.
2. Double-click **UFEDReader.exe**.

Cellebrite Reader opens.





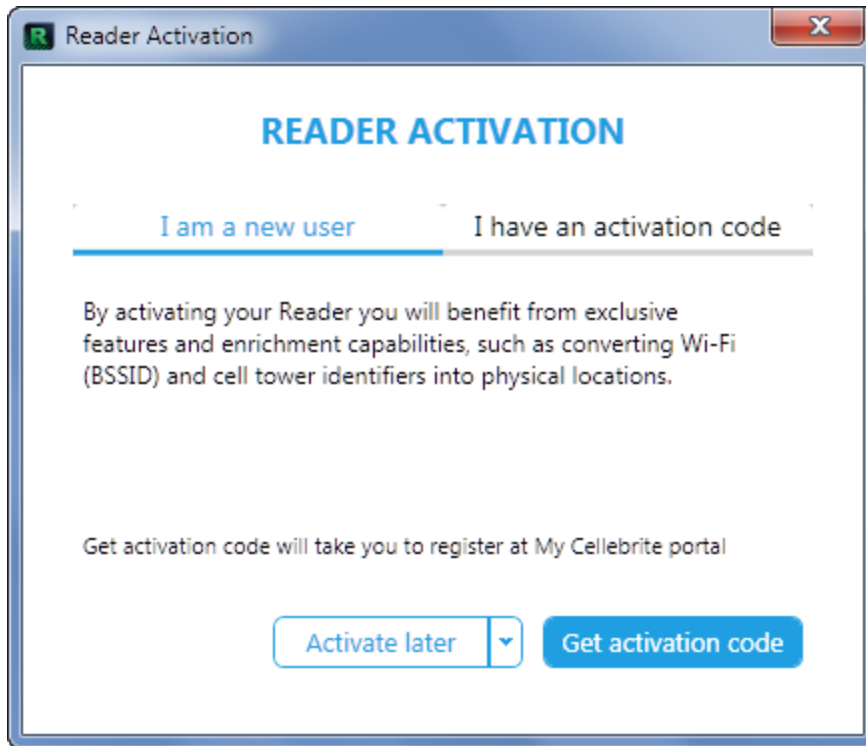
If you have not activated Reader previously, the Reader Activation Window appears, see [Activating Cellebrite Reader \(on the facing page\)](#).

## 2.3. Activating Cellebrite Reader

Activate Cellebrite Reader to benefit from exclusive features and enrichment capabilities, such as converting Wi-Fi (BSSID) and cell tower identities into physical locations.

### To activate Cellebrite Reader:

1. When Cellebrite Reader starts for the first time or it has not yet been activated, the Reader Activation window appears:



2. Under I am a new user, click **Get activation code**.



If you do not have an Internet connection, you will need to complete this step on another computer with an Internet connection.

The following window appears.

[New user](#)

[Restore my activation key](#)

### REGISTER READER

First name \*

Last name \*

Job role \*

Agency/Company/Organization \*

Country \*

- Complete the mandatory registration information, select the **i'm not a robot** and the **Terms of Use and Privacy policy** check boxes. Then click **Send me the activation key**. The following window appears.

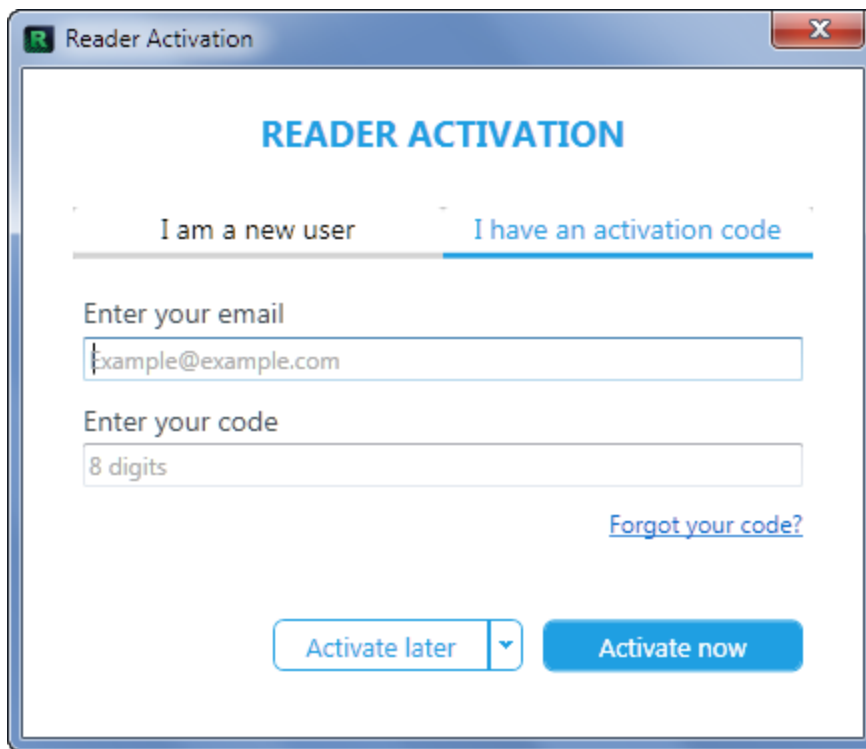
Thank you for registering your product



Your registration has completed successfully!  
In **Reader**, enter the **activation key** sent to you by email.

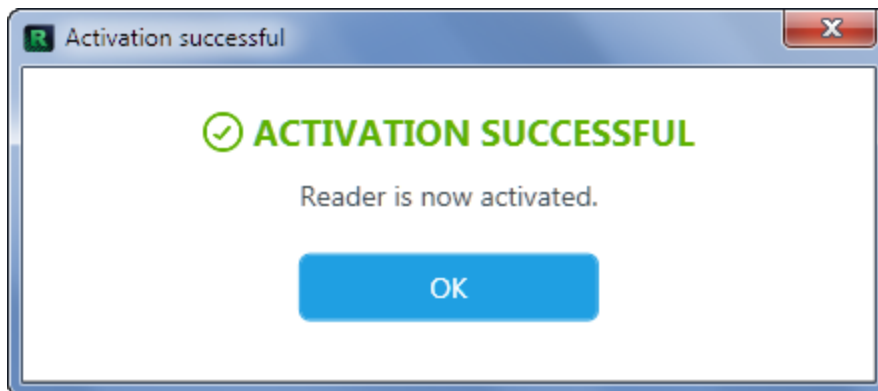
- Check your email for the activation code.
- In the Activation window, click **I have an activation code**, and then enter the email address you used to register and the activation code.





The 'Reader Activation' window features a title bar with a green 'R' icon and a close button. It contains two tabs: 'I am a new user' and 'I have an activation code'. The 'I have an activation code' tab is selected. Below the tabs, there are two input fields: 'Enter your email' with the placeholder 'example@example.com' and 'Enter your code' with the placeholder '8 digits'. A blue link 'Forgot your code?' is positioned to the right of the code input field. At the bottom, there are two buttons: 'Activate later' with a dropdown arrow and 'Activate now'.

6. Click **Activate now**. The following window appears.



The 'Activation successful' window has a title bar with a green 'R' icon and a close button. It displays a green checkmark icon followed by the text 'ACTIVATION SUCCESSFUL' in green. Below this, it says 'Reader is now activated.' and features a single blue 'OK' button.

7. Click OK.

**To restore your activation code:**

1. In the Reader Activation window, click the **Forgot your code** link. The following window appears.

New user

[Restore my activation key](#)

#### ENTER YOUR EMAIL ADDRESS TO RECEIVE YOUR ACTIVATION KEY

Email address \*

Confirm your email address \*

Send me my activation key

2. Enter your email address that you used when you registered (or click **New user** to create a new user).
3. Click **Send me my activation key**. A confirmation email with your new activation key will be sent.
4. Check your email for your activation key.

## 2.4. Opening a file for analysis

The Cellebrite Reader can open UFDR files.

1. Do one of the following:
  - » Click **File > Open UFDR file**.
  - » In the **Welcome** tab, click **Open**.
2. Browse to the location of the file, and select it.
3. Click **Open**.

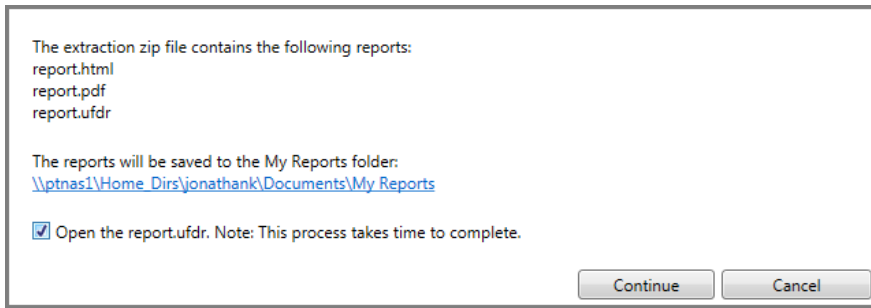
The data analysis process begins and runs for several seconds. At the end of the process, the new project is added and the **Extraction summary** appears in the data display area.

## 2.5. Opening an encrypted zip file

Cellebrite Reader can open encrypted zip files created by Cellebrite Responder. The zip file can contain HTML, PDF and UFDR report files. Only the UFDR file can be opened. To open an encrypted zip file, you need to enter the password.

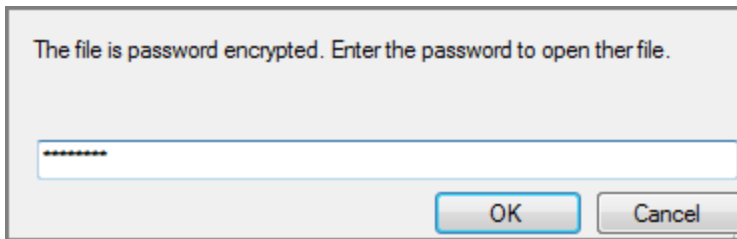
## To open an encrypted zip file:

1. Open the extraction in Cellebrite Reader. The following window appears.



The window indicates where the report files will be saved.

2. To open the report.ufdr file, select the **Open the report.ufdr** check box.
3. Click **Continue** to save the report files to the location indicated. The following window appears.



You can change the location under **Settings > Report Defaults > Default folder**.

4. Click OK.

## 2.6. Saving a project session

Save the project session to save your work on the project, enabling you to close Cellebrite Reader and restart your session at a later time.

The saved session file (.pas) includes:

- » User selection in the **Analyzed Data** and **Data Files** tables
- » Case Information settings
- » Generated reports
- » Location address
- » Opened tabs
- » Project name
- » Project settings
- » Report selection
- » Searches
- » Tags
- » Translations
- » Unified time zone settings
- » User sorting in data tables
- » Verifying hash values
- » Watch list results

A project session can also be created for extractions performed by third party tools.

Saved project sessions do not contain defined settings. For more information on how to save your settings, see [Saving settings \(on page 104\)](#).

### To save a project session:

1. In the **File** menu, select **Save project session**. The Save As dialog box appears.
2. Browse to the location where you want to save the project session file.
3. To change the file name, edit the automatically assigned name in the **File name** box.




To overwrite an earlier session, choose the same file name.

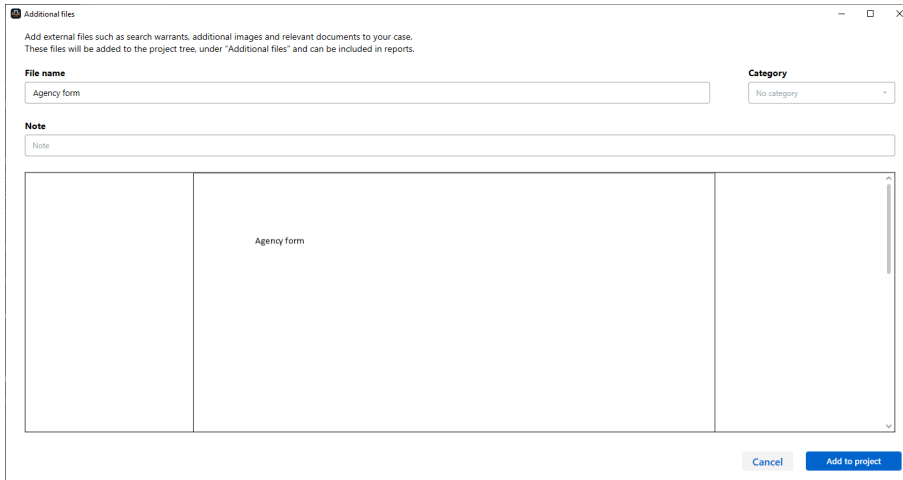
4. Click **Save**.

## 2.7. Adding external files

If required, you can include related artifacts in your case. These are external files such as search warrants, additional images and relevant documents. These files will be added to the project tree, under Additional files and can be included in reports.

### To add external files to the report:

1. Click **Add external files** in the Extraction Summary.  
or  
Click  next to the project and select **Add external file**.
2. Select the file. The following window appears.

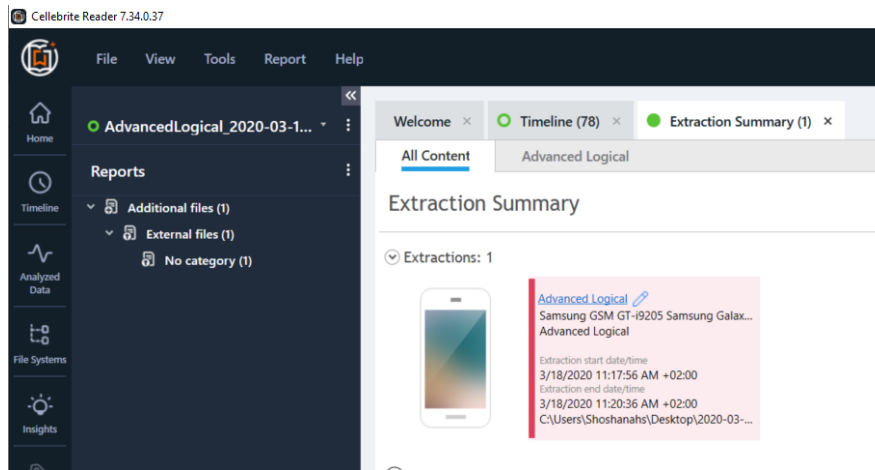


3. Enter a name for the file.
4. Enter or select a category.
5. If required enter any notes.

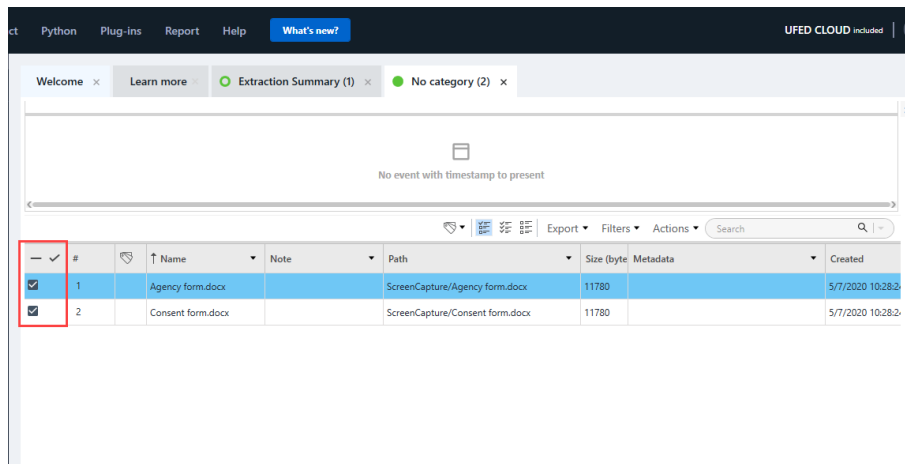


For images, you can use the drawing tool on the left to draw text, add shapes, crop, resize, rotate, and flip the image. You can also copy the image to the Clipboard.

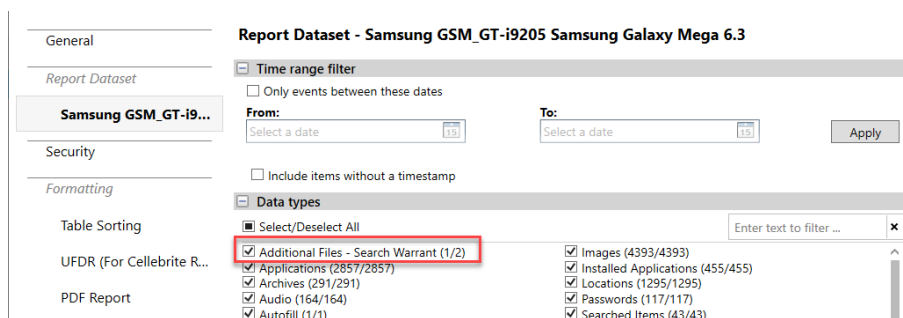
6. Click **Add to project** and select the project. The file is located in **Reports > Additional files > External files**.



7. Open the files from here and select or clear the check box to include or exclude files from the report.



8. When generating a report select the **Additional Files** check box.



## 2.8. Loading a project session

1. From the **Welcome** tab, open the project that you want to work in.
2. In the **File** menu, select **Load project session**.
3. In the Open dialog box, browse to and select the project session file that you want to open.
4. Click **Open**. The session opens.

## 2.9. Closing Cellebrite Reader

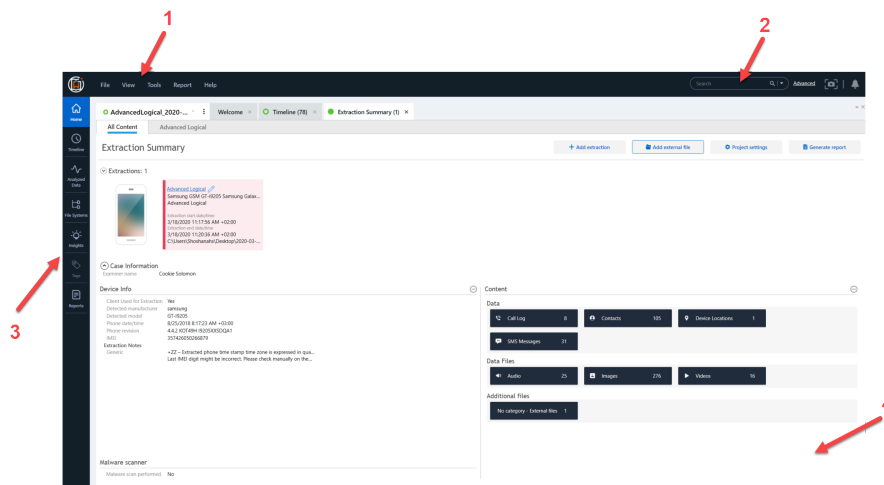
- » In the **File** menu, select **Exit**.

## 2.10. Keyboard shortcuts

Ctrl+B	Add an entity bookmark
Ctrl+End	Move the cursor to the end of a table
Ctrl+Home	Move the cursor to the beginning of a table
Ctrl+O	Open a UFDR file
Ctrl+P	Open project settings
Ctrl+R	Open the report wizard
Ctrl+T	Open settings
Ctrl+Tab	Switch between open tabs
Ctrl+W	Close a project
F1	Open the product documentation
Space	Select or clear check boxes
Ctrl+F6	Redact images or videos

## 3. Orientation to the workspace

The workspace contains two main areas; the project tree and the data display area to streamline your workflow.



The workspace contains the following components:

1. Application menu bar
2. All projects search
3. Navigation menu
4. Data display area

### 3.1. Navigation menu

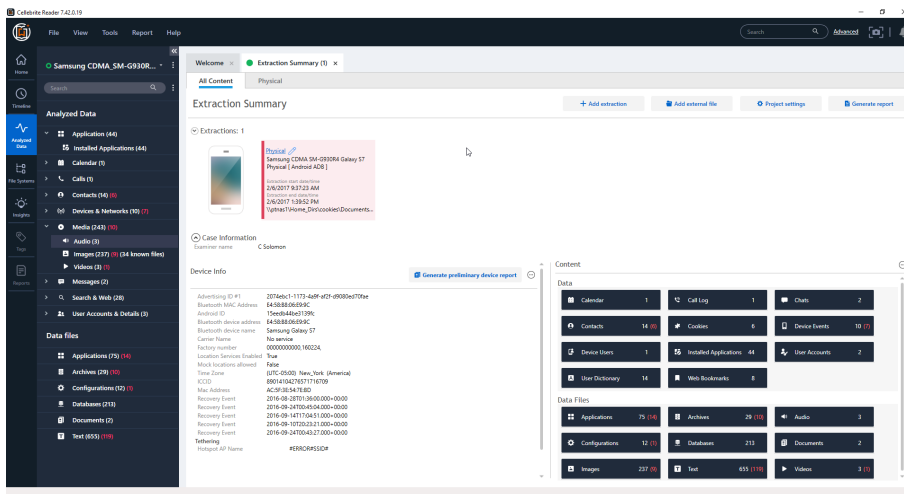
Navigate the Cellebrite Reader application views from the following navigation menu items:

- » Home
- » Timeline
- » Analyzed data
- » File Systems
- » Insights
- » Tags
- » Reports

#### 3.1.1. Home

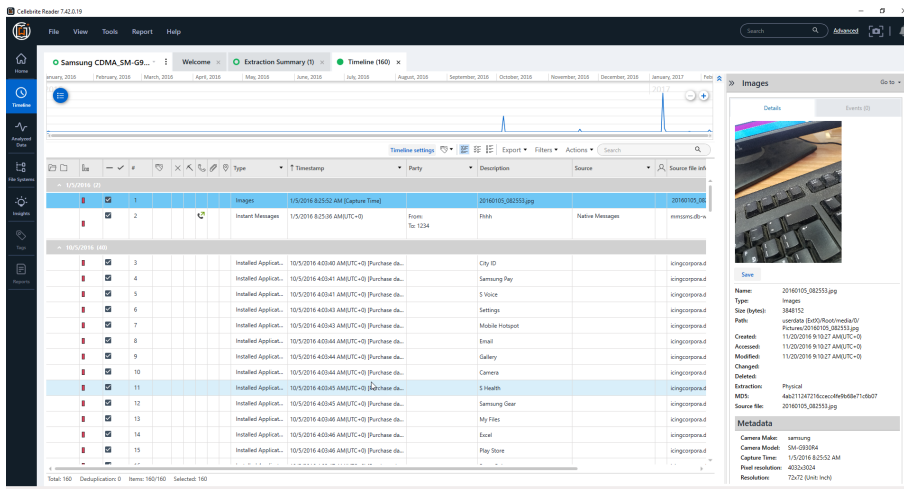
The Home view displays the Extraction summary. See [Extraction summary tab \(on page 36\)](#).





### 3.1.2. Timeline

Timeline view is a powerful tool that enables you to analyze data in chronological order, to identify the order of events and make connections between them.



### Filtering and sorting the timeline table

The timeline has many advanced filtering and sorting options to drill down to specific data and display them according to the users needs.

Filter by Type, Timestamp, Party, Description, Source, Source file information, and Extraction.

#### To filter the timeline:

1. Click the dropdown icon in a column heading.
2. Select the filter options
3. Click **Ok**.



To clear applied filters, click **Clear filters**.

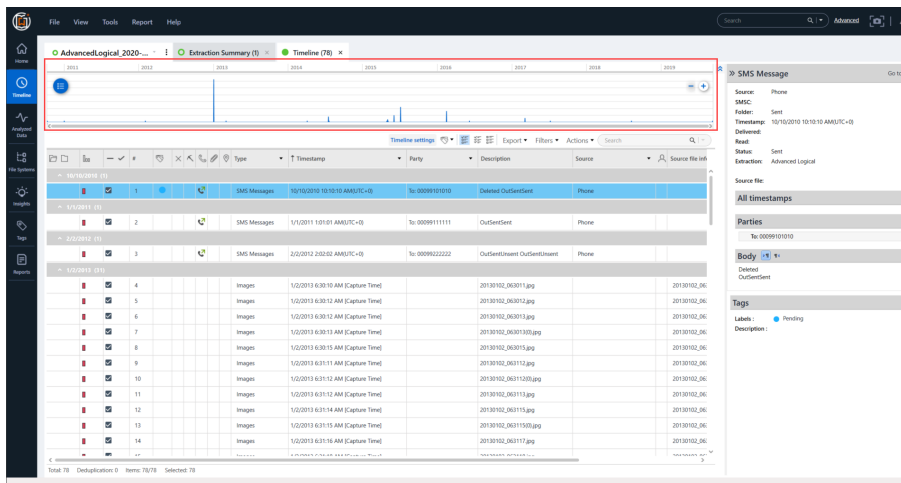
## Sorting the timeline table

Sort the timeline table by Type, Time stamp, or Extraction.

1. Click the dropdown icon in a column heading.
2. Select either:
  - » Sort ascending
  - » Sort descending

## The graphical timebar

The graphical timebar allows you to zoom-in to the timeframe in question as well as analyze multiple timestamps of events.




### To select a specific timeframe in the graphical timebar:

1. Click and drag on the time bar to select a timeframe.
2. Click **Apply**.

The table is updated to reflect the selected timeframe.

### To apply fields to the graphical timebar:

1. Click  to open the fields selection window.
2. Select the required fields.
3. Click **Apply**.



To zoom in the graphical timebar click . To zoom out, click .



To clear timebar settings, click **Clear**.


## Tagging items on the timeline

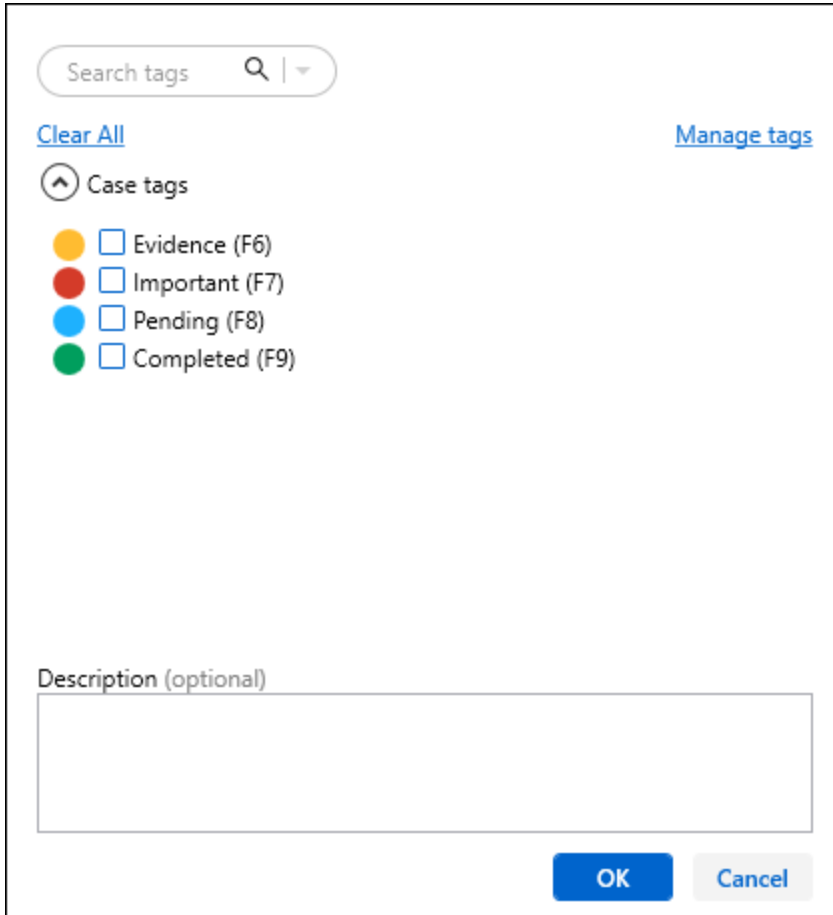
Tag timeline items for easier data management.

The screenshot displays the Celastri Reader 7.343.37 application interface. The main window shows a timeline view with a horizontal axis representing time from 2012 to 2019. A context menu is open over the timeline, showing options: Tag, Remove tag, and Manage tags. The timeline contains several data points, including SMS Messages and Images, each with a timestamp and a source. The right sidebar shows details for an SMS Message, including Source, SMSC, PSMSC, Timestamp, Outbound, Read, Status, Extraction, and Source file. The bottom status bar indicates 'Total 78' and 'Selected 78'.

Item	Type	Timestamp	Party	Source
1	SMS Messages	10/10/2010 10:10:10 AM UTC+0	To: 0000000000	Phone
2	SMS Messages	1/1/2011 1:01:01 AM UTC+0	To: 0000111111	OutSent
3	SMS Messages	2/2/2012 2:02:02 AM UTC+0	To: 0000222222	OutSent
4	Images	1/1/2013 6:30:10 AM [Capture Time]	20130102_063010.jpg	20130102_06
5	Images	1/1/2013 6:30:12 AM [Capture Time]	20130102_063012.jpg	20130102_06
6	Images	1/1/2013 6:30:13 AM [Capture Time]	20130102_063013.jpg	20130102_06
7	Images	1/1/2013 6:30:15 AM [Capture Time]	20130102_063015.jpg	20130102_06
8	Images	1/1/2013 6:30:15 AM [Capture Time]	20130102_063015.jpg	20130102_06
9	Images	1/1/2013 6:31:11 AM [Capture Time]	20130102_063111.jpg	20130102_06
10	Images	1/1/2013 6:31:12 AM [Capture Time]	20130102_063112.jpg	20130102_06
11	Images	1/1/2013 6:31:12 AM [Capture Time]	20130102_063112.jpg	20130102_06
12	Images	1/1/2013 6:31:14 AM [Capture Time]	20130102_063114.jpg	20130102_06
13	Images	1/1/2013 6:31:15 AM [Capture Time]	20130102_063115.jpg	20130102_06
14	Images	1/1/2013 6:31:16 AM [Capture Time]	20130102_063116.jpg	20130102_06

### To add a tag to timeline items:


1. Select one or more row in the timeline table.
2. Click .
3. Select **Tag**.
4. Select the required tags.



5. Click **OK**.

The Tags column is updated with the selected tabs.



### To manage tags:

1. Click .
2. Select **Manage tags**.
3. In the Manage tags window you can:
  - » Search tags.
  - » Rename existing tags.
  - » Delete tags.
  - » Define tag color.


- » Define tag hotkey.
- » Create a new tag by clicking **New tag**.
- » Import and Export list of tag labels.


4. Click Ok.

Define your tags names, colors and hotkeys









Search tags...  

^ Global tags

 Import

 Export

New tag

Evidence			F6
Impotent			F7
Pending			F8
Complete			F9

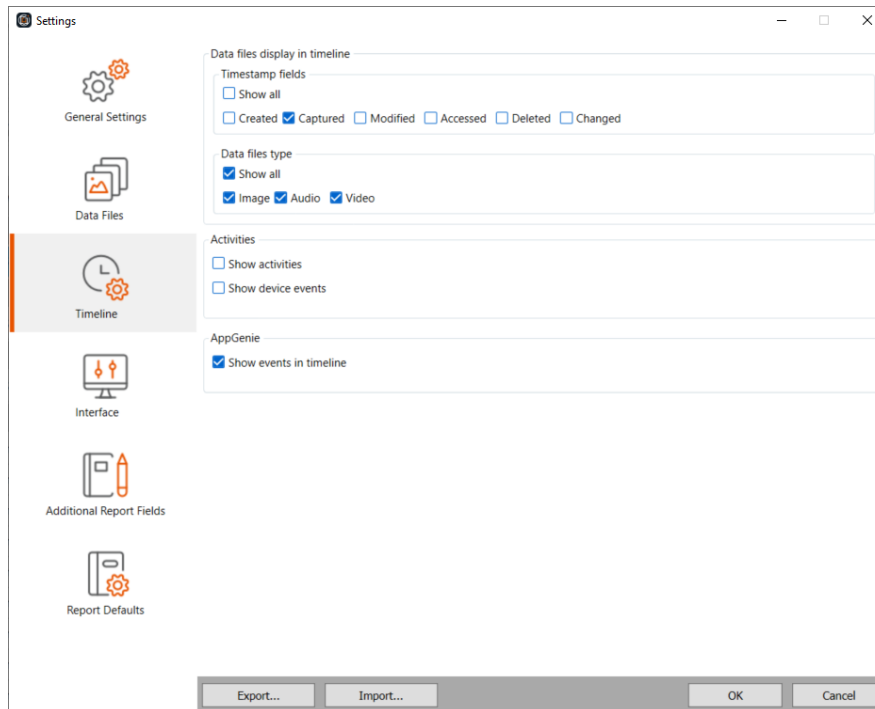
^ Project VIC categories

Cancel

Ok

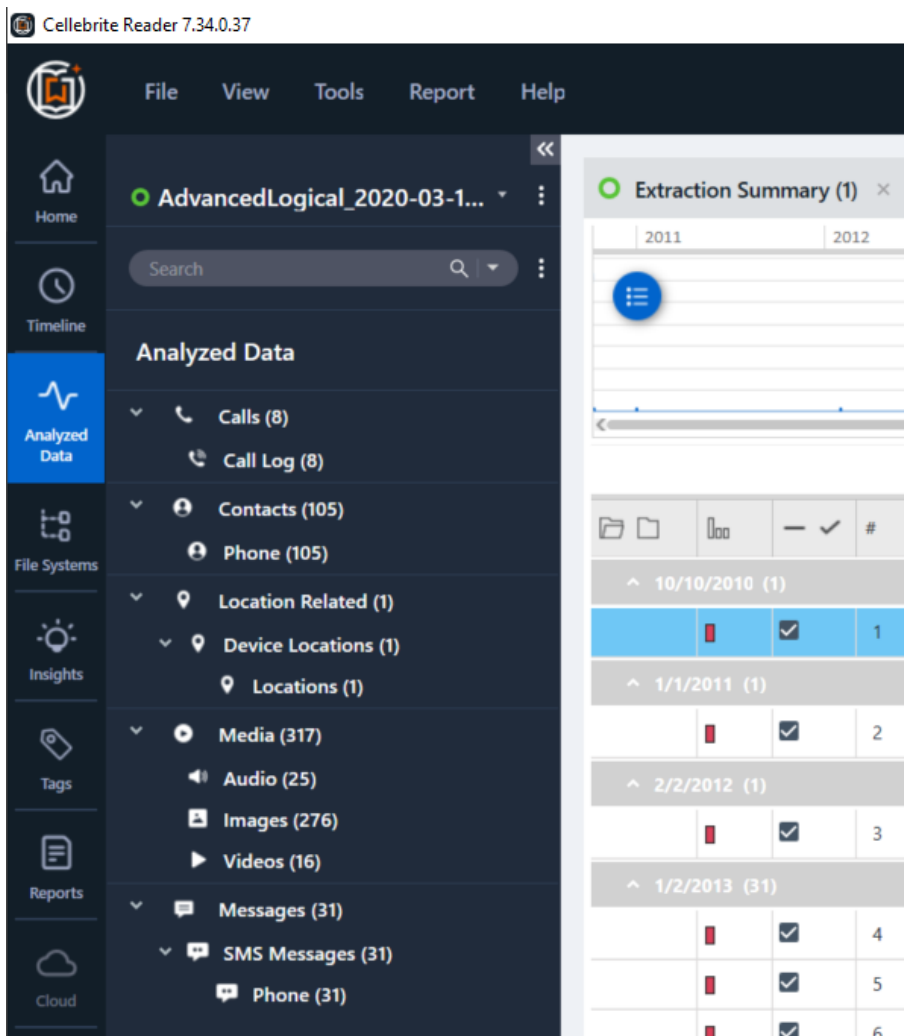
## Managing timeline settings

1. Click **Timeline settings**.
2. Select required settings.
3. Click **Ok**.



### 3.1.3. Analyzed data

The **Analyzed Data** view displays a tree with groups of analyzed data that are related to device-specific features such as contacts, SMS messages, call logs, and so on.



The available information and what is displayed depends on the device features and application version. For example, SMS messages are sorted according to the folders used by the messaging feature of the device, such as Drafts, Inbox, Outbox, Sent, and so on. Email messages are sorted according to the account through which they were sent or received. An uncategorized account or messages folder lists the folders or messages that cannot be categorized in any of the found accounts or account folders (Inbox, Outbox, Drafts, and so on).

The following information types is displayed in the Analyzed data tree:

### Analyzed Data

- » **Personal information** - Calendar, contacts, notes, call log, user dictionaries, user accounts.
- » **Messaging items** - SMS, MMS, email, instant messages, chat.
- » **Web browser items** - Bookmarks, history, cookies.
- » **Media items** - Audio, images, and videos.

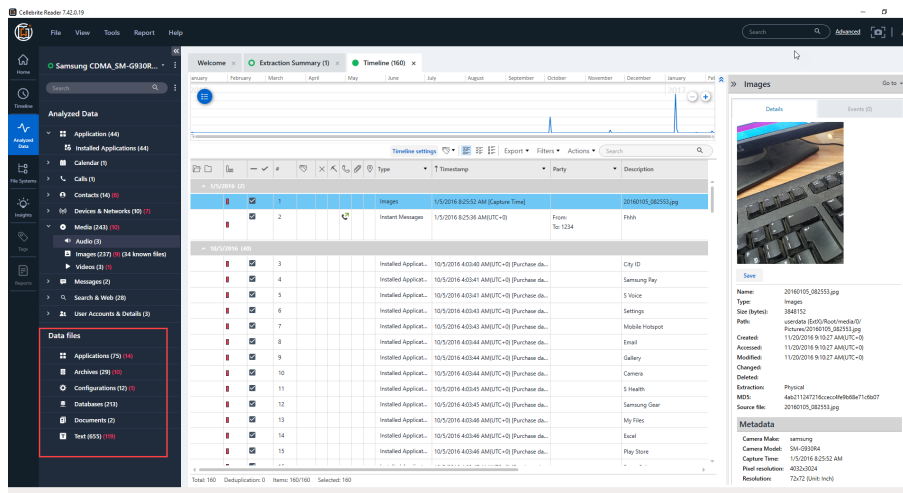
- » **GPS information** - Locations (including from video files, metadata, and SQLite databases), journeys, fixes. For more information on geolocations.
- » **Device information** - Bluetooth pairings, wireless networks, SIM data, application usage, Wi-Fi, cellular locations.

The number in parenthesis designates the number of items each category contains.

Selecting any analyzed data category automatically adds it to the highlights list of the displayed binary image and/or memory range it belongs to (located at the bottom of the Hex view tab), and highlights its data range portions in the displayed data.

## Data files

The Data Files tree item sorts the extracted data into common formats, used by devices and computers, such as text or document files.



In the project tree, the information is displayed in the following categories:

- » **Applications** - Files that were recognized as application files (such as .apk, .jar, .dex, .so, .exe)
- » **Archives** - Files that were recognized as archive or compressed files (such as .zip, .zipx, .rar, .tar, .gzip, .7zip, .7z, .dar, .gz, .arj)
- » **Configurations** - Device configuration files (such as iOS plist files)
- » **Databases** - Data structures that were recognized as databases
- » **Documents** - Files that were recognized as document file formats (such as .doc, .docx, pdf; xlsx, ppt).
- » **Shortcuts** -
- » **Text** - Files that were recognized as text file formats
- » **Uncategorized** - All unknown file formats or undefined file extensions.


Deleted items are indicated in red.





Double clicking on a tree item opens a tab in the data display area.



Expand or collapse tree items by clicking  and selecting **Expand all** or **Collapse all**.

### 3.1.4. File systems

The File systems view displays a tree with the following data:

- » **Memory images** - Double-click an image item to display it in a Hex View tab in the data display area.

The **Memory Images** - tree item lists all the extraction files generated from the memory modules of the device.

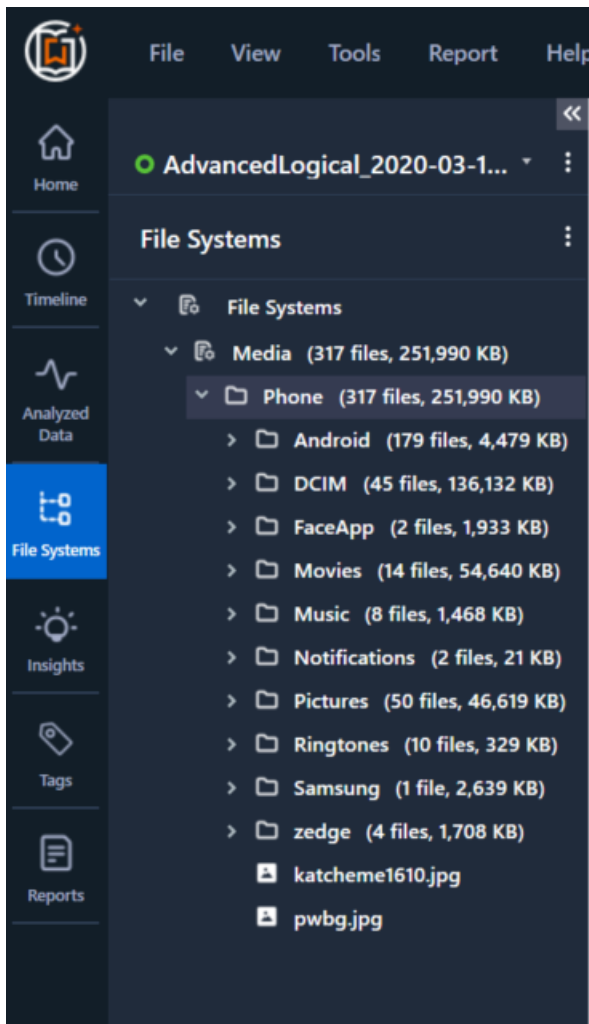
- » **Memory Ranges** - lists the analyzed memory ranges for each of the extracted memory modules of the device (listed under **Images**).

Select a memory range to:

- » Highlight the memory range portion in the displayed data
- » Add it to the highlights list of the displayed binary image it belongs to (located at the bottom of the Hex view tab).

Double-click a memory range item to display its content in a new Hex view tab.

- » **File systems** - file systems found or reconstructed out of the analyzed binary file.



The **File Systems** tree displays all the file systems found or reconstructed out of the analyzed binary file.


Each file system is marked with (hard drive icon). Deleted files are marked with (red cross icon).

Double-click any file system item to display its content in a new Hex view tab.



Double clicking on a tree item opens a tab in the data display area.



Expand or collapse tree items by clicking  and selecting **Expand all** or **Collapse all**.

### 3.1.5. Insights


The Insights view displays a tree with the following information:

- » Watch lists - Watch lists are lists of keywords that you create and then use to search and identify events and items of interest in the extracted data.
  - » Expand **Watch Lists** to view a list of watch lists that have been run in the current session.
  - » Double-click on **Watch Lists** to view the highlighted entity based on the watch lists.
- » Hash sets
- » Malware scanner - Run the malware scanner to identify malware on the device.



Double clicking on a tree item opens a tab in the data display area.

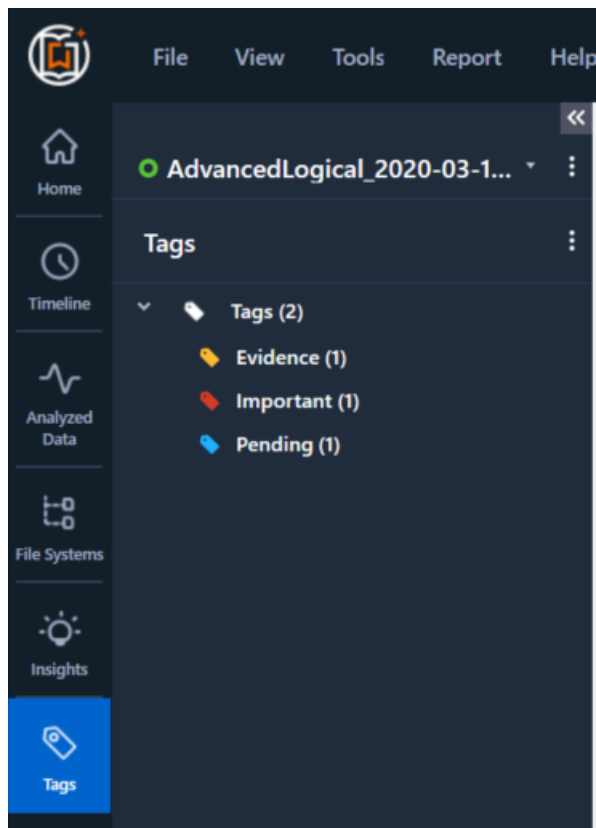


Expand or collapse tree items by clicking  and selecting **Expand all** or **Collapse all**.

### 3.1.6. Tags

The Tags view displays a tree with defined project tags.


Double click on a tag in the tree to open a tab with details in the data display area





Double clicking on a tree item opens a tab in the data display area.

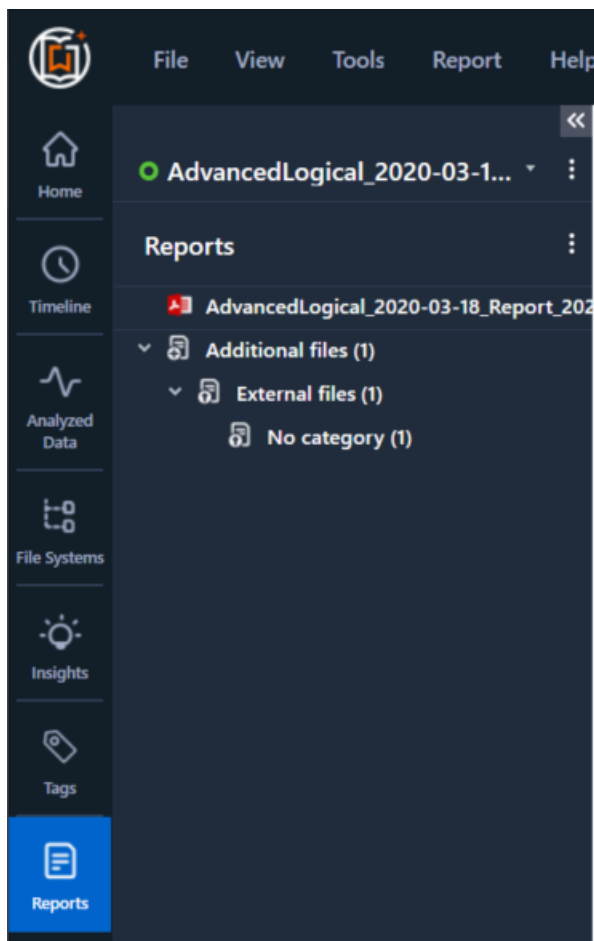


Expand or collapse tree items by clicking  and selecting **Expand all** or **Collapse all**.

### 3.1.7. Reports

The Reports view displays a list of generated reports. See [Generating a report \(on page 79\)](#).

1. Double Click on a report to open. The report opens in the application associated with the report format.



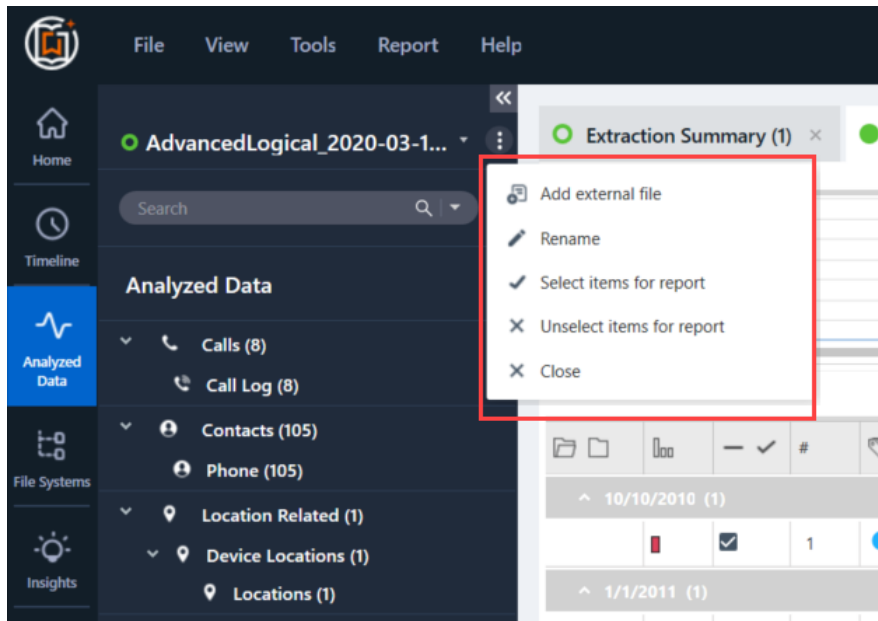
### 3.1.8. Managing project actions

The project menu allows you to perform the following actions:

- » Add external file
- » Rename
- » Select items for report
- » Unselect items for report
- » Close

### Procedure:

1. Click the menu icon next to the project name.
2. Select the required menu item.

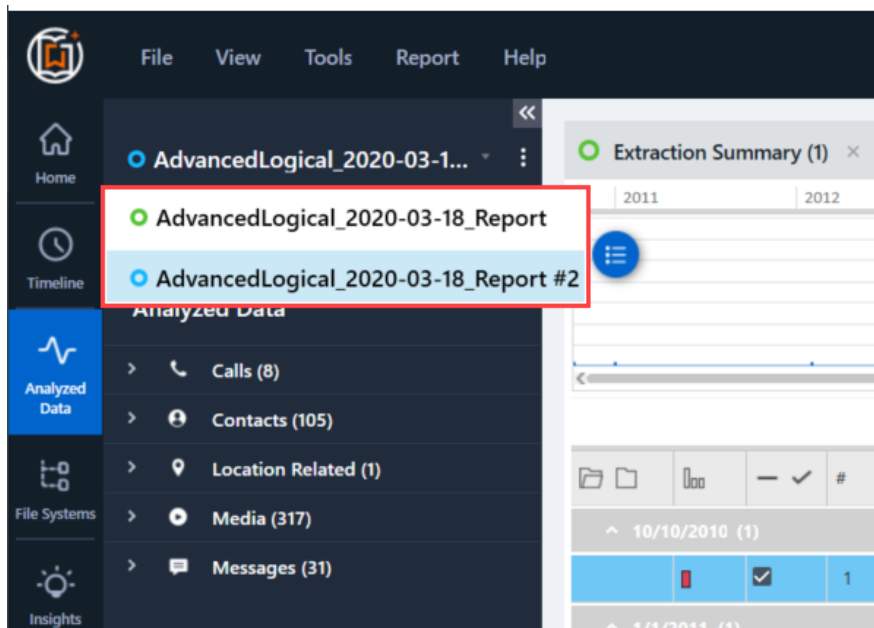


### 3.1.9. Viewing extraction data from multiple projects

When there are multiple projects open in Cellebrite Reader, it is possible to switch between projects to view the data.

1. Click the dropdown icon next to the project name.
2. Select a project.

The view displays the extraction data for the selected project.



## 3.2. Data display area

Double-click an item to display it in a tab. A new tab is opened for each item. There are three tab types:

- » Welcome tab
- » Extraction Summary tab
- » Data tabs, with sub-tabs that present a particular view, depending on the data

The data display area also displays additional windows such as the Trace window and Timeline view.

### To close a tab

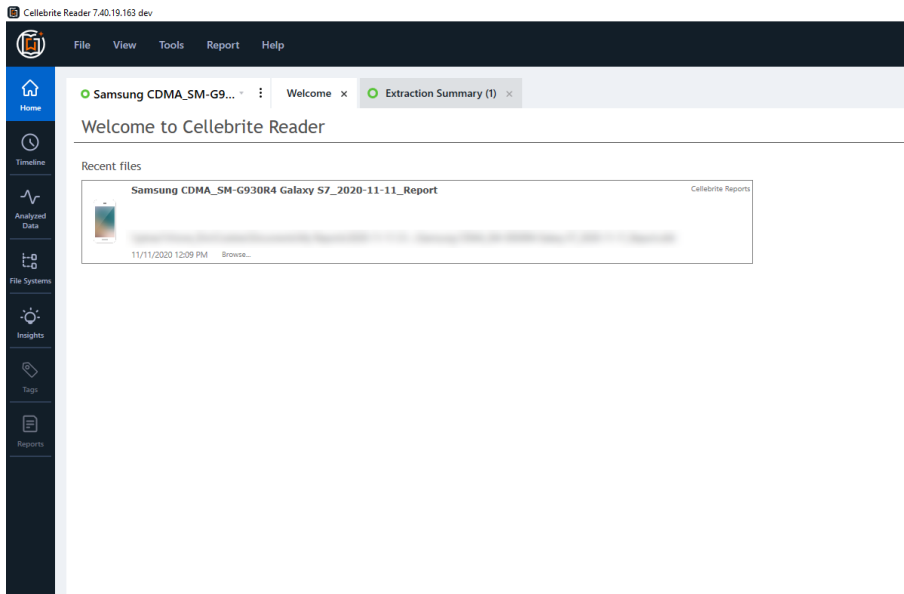
- » Do one of the following:
  - » Click **X** on the tab header.
  - » Click **X** at the top right of the data display area.

### To jump to a specific tab

- » At the top right of the data display area, click ▼, and select the desired tab from the open tabs list.

### 3.2.1. Welcome tab


The **Welcome** tab is automatically displayed in the data display area when the application starts and displays a list of recently opened files.



Each file in the list is displayed as a framed information group that contains the following items:

- » **Device picture** - A thumbnail image of the device from the application resources, if available. When unavailable, a general placeholder image is used.
- » **File name** - The name of the opened file, without the file extension.
- » **File path** - The file system path to the file location.
- » **Device model** - The identified device manufacturer and model, or BINARY if the opened file was a binary extraction.
- » **Date and time** - The date and time stamp in which the file was last opened.
- » **Browse link** - A direct link to the file in the system.



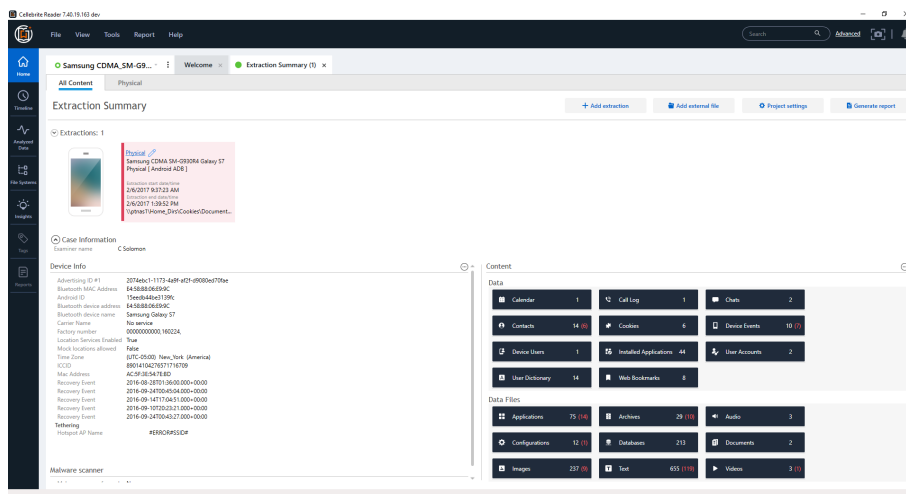
To remove a recent item from the Welcome tab, click .

You can do the following:

- » Click on a framed item to open the files for decoding.
- » Click **Browse** to go directly to the file associated with it in the file system.
- » Close the **Welcome** tab. To reopen it, go to **View > Welcome Screen**.

## 3.2.2. Extraction summary tab

The **Extraction Summary** tab is displayed automatically whenever you open a new extraction for analysis.



The Extraction Summary tab has the following sub tabs:

- » **All Content:** Includes information on the extractions, device information and device content. For more information, see [All Content tab \(below\)](#).
- » **Extractions:** A tab for each type of extraction performed. See [Extraction tabs \(on page 41\)](#).

### 3.2.2.1. All Content tab

The All Content tab includes the following information:

[Extractions \(on the facing page\)](#)

[Case Information \(on page 38\)](#)

[Device Info \(on page 39\)](#)

[Device Content \(on page 40\)](#)



### 3.2.2.1.1. Extractions

This section includes information related to the device extractions.

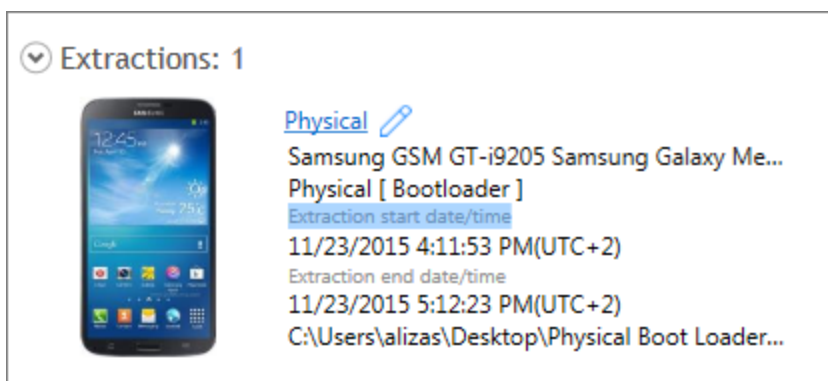


Figure: *Single extraction*




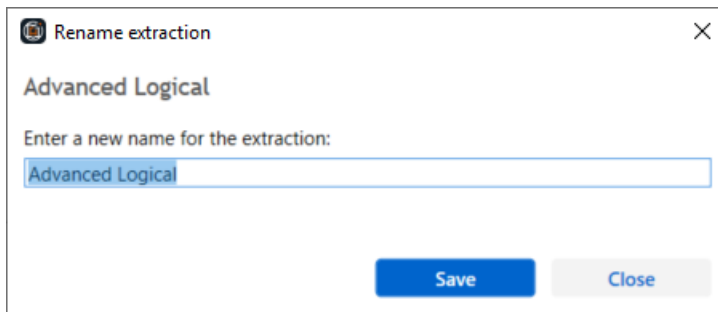
Figure: *Project with multiple extractions*

The Extractions area includes the following information:

<i>Extraction link</i>	Link to the extraction tab.
<i>Device model</i>	Detected model e.g., MB717, Samsung GT-I9205.
<i>Type of extraction</i>	Type of extraction performed e.g., Physical (Bootloader).
<i>Extraction start date/time</i> <i>Extraction end date/time</i>	When the extraction started and ended.
<i>Path to the extraction file</i>	The location of the extraction file.

#### To rename an extraction:

1. Click the Edit button (  ) or select the extraction name in the project tree, right-click and then select **Rename**. The following window appears.



**Rename extraction** [X]

Advanced Logical

Enter a new name for the extraction:

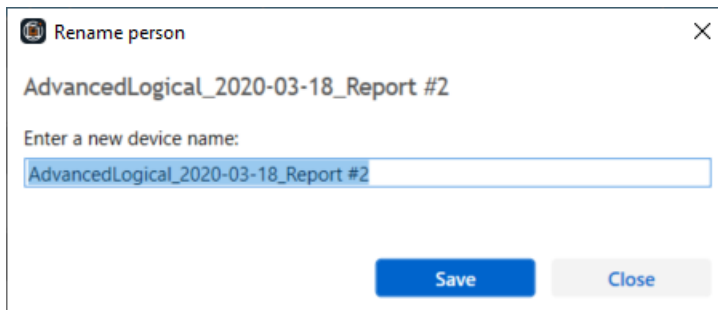
Advanced Logical

Save Close

2. Enter a new name for the extraction and then click **Save**.

### To rename a project:

1. Select the project name in the project tree.
2. Right-click and then select **Rename**. The following window appears.



**Rename person** [X]

AdvancedLogical\_2020-03-18\_Report #2

Enter a new device name:

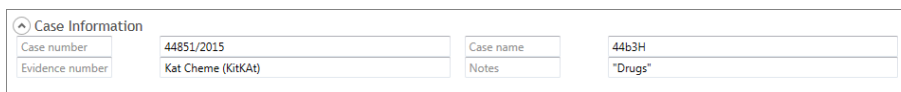
AdvancedLogical\_2020-03-18\_Report #2

Save Close

3. Enter the required name for the project.
4. Click **Save**.

### 3.2.2.1.2. Case Information

This section includes the case information, which is taken from the **Project settings > Case Information**.



Case Information			
Case number	44851/2015	Case name	44b3H
Evidence number	Kat Cheme (KitKat)	Notes	"Drugs"

### 3.2.2.1.3. Device Info

This section displays a summary of the specific device information taken from the extraction file.

The following example shows device information for a project with multiple extractions.

Device Info		
<b>Logical</b>		
Detected manufacturer	samsung	Information from XML
Detected model	GT-I9205	Information from XML
Phone revision	4.4.2 KOT49H I9205XXI	Information from XML
IMEI	357426050266879	Information from XML
Phone date/time	11/23/2015 3:54:03 PM	Information from XML
Client Used for Extraction	Yes	Information from XML
<b>Extraction Notes</b>		
Generic	+ZZ – Extracted phone Last IMEI digit might be	Information from XML
<b>Physical</b>		
Android ID	5236fef524a49eea	<a href="#">settings.db-wal : 0xA9...</a>
Bluetooth MAC Address	BC:72:B1:54:36:EA	<a href="#">settings.db-wal : 0xAF...</a>
Bluetooth device name	Galaxy Mega	<a href="#">settings.db-wal : 0xAF...</a>
OS Version	4.4.2	<a href="#">build.prop : 0xED</a>
Detected Phone Model	GT-I9205	<a href="#">build.prop : 0x1A3</a>
Android fingerprint	samsung/meliusltexx/n	<a href="#">build.prop : 0x3C5</a>
Detected Phone Vendor	samsung	<a href="#">build.prop : 0x1BD</a>
Mac Address	BC:72:B1:54:36:EB	<a href="#">.mac.info : 0x0</a>
ICCID		
IMSI	425010776252947	<a href="#">com.android.phone_p...</a>
ICCID	899720203585963501	<a href="#">CheckinService.xml : 0...</a>
IMSI	425020358596350	<a href="#">CheckinService.xml : 0...</a>
Phone Activation Time	6/1/2015 1:34:21 PM(U	
Factory number	RF1D575GRBB	<a href="#">serial_no : 0x0</a>
Locale language	en	<a href="#">persist.sys.language :...</a>
Country Name	US	<a href="#">persist.sys.country : 0x0</a>
Time Zone	Asia/Jerusalem	<a href="#">persist.sys.timezone :...</a>
IMEI	357426050266879	<a href="#">2400257.cfg : 0x100</a>
Mock locations allowed	False	<a href="#">com.android.settings ...</a>
Auto Time Zone	True	<a href="#">com.android.settings ...</a>
Auto Time	False	<a href="#">com.android.settings ...</a>

### 3.2.2.1.4. Device Content

This section includes the analyzed content, which is divided into the following categories:

- » **Phone Data:** The types of analyzed device data found in the extraction, such as call logs, contacts, instant messages, and so on.
- » **Data Files:** The types of standard data files found in the extraction, such as applications, audio, configurations, images, videos, text files, and uncategorized.
- » **Camera Evidence:** Pictures or videos of a device.
- » **Phone Evidence:** Screenshots of the device.

Content

[30 data sources can be extracted using UFED Cloud](#)

Data

Autofill 2	Calendar 67 (18)	Call Log 466 (25)
Chats 961 (390)	Contacts 1398 (226)	Cookies 1832 (329)
Device Events 50	Device Locations 3871 (20)	Device Notifications 36 (6)
Device Users 1	Emails 482 (57)	Form Data 1
Installed Applications 420 (5)	Instant Messages 91 (10)	Maps 14
Notes 101 (56)	Passwords 633 (8)	Searched Items 143 (8)
User Accounts 148 (1)	User Dictionary 3785	Web Bookmarks 130 (6)
Web History 419 (1)	Wireless Networks 667	



The number in white indicates the total number of items, and the number in red (in parenthesis) indicates that the item was found in deleted data.

### 3.2.2.2. Extraction tabs

An extraction tab is displayed for each type of extraction. The extraction tabs display extraction information such as when the extraction was performed, by what Cellebrite UFED unit, using which cable as well as Image Hash Information, which is used for the verification of the logged hash values of the parsed images. In each extraction tab you can use the find box to search for device specific information.

Extraction information includes the following:

<i>Extraction start date/time</i> <i>Extraction end date/time</i>	When the extraction started and ended.
<i>Unit Identifier</i>	The serial number of the device that performed the extraction (e.g., Cellebrite UFED Touch), or a unique ID if the extraction was performed by a PC application (e.g., Cellebrite UFED 4PC).
<i>Unit Version</i>	Cellebrite UFED software version (e.g., 4.1.0.220)
<i>Selected Manufacturer</i>	Manufacturer of the device (e.g., Apple)
<i>Selected Device Name</i>	Device name (e.g., iPhone 4)
<i>Connection Type</i>	Cable used for the extraction (e.g., Cable No. 100)
<i>Extraction Type</i>	Type of extraction performed (e.g., File system)
<i>Extraction ID</i>	Unique ID for each extraction type
<i>Extraction (UFD) file data integrity</i>	Corruption check status (e.g., Intact, Corrupt, Not Available)



To display the relevant information in a new tab in the data display area, click any of the tree items.

### Protecting UFD and Extractions

To enhance protection of extraction files, an implemented corruption check mechanism prevents data loss in transit and manual tempering of extractions. In the extraction summary you can view one of the following corruption check statuses:

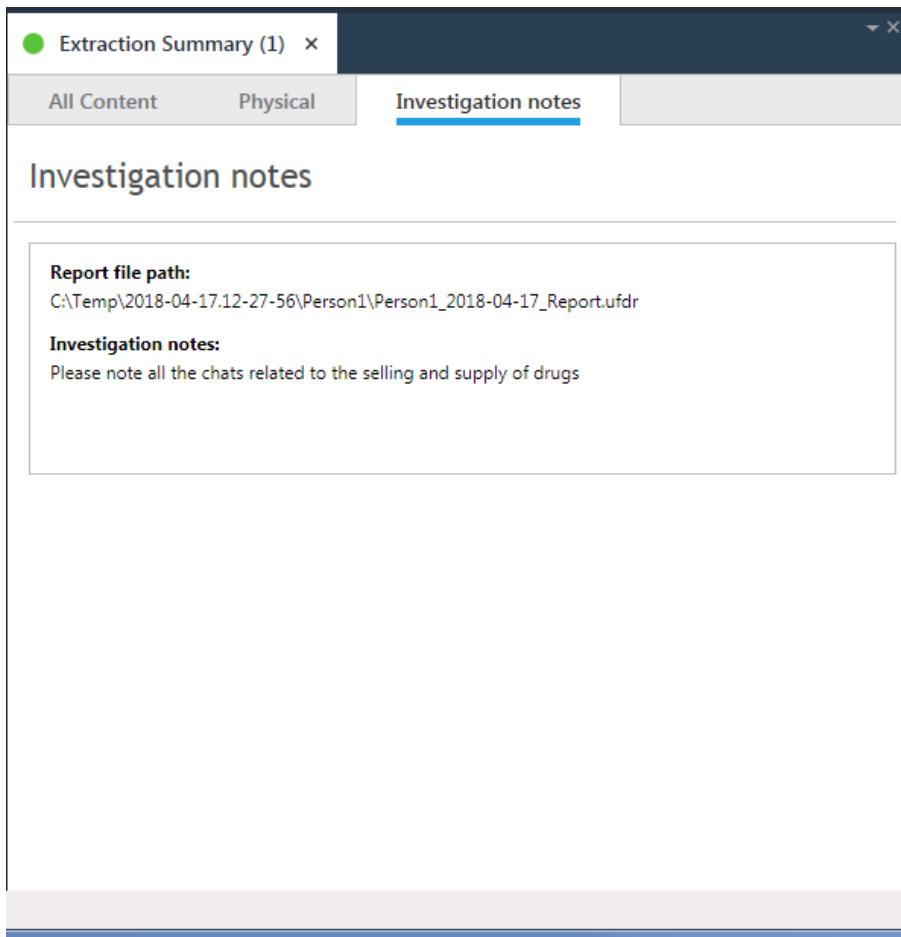
- » **Intact** - in case the check succeeded.
- » **Corrupt** - in case the check fails.



A status of "Not Available" will appear for extractions made with previous versions of Cellebrite Reader.

### 3.2.2.3. Investigation notes tab

If the UFDR file includes notes that were added when the file was created, it will be displayed in the **Investigation notes** tab under the Extraction Summary. For each UFDR report, the report file path is also indicated. An example is displayed next.



### 3.2.3. Data tabs

Data tabs show files of a specific type (such as call log, contacts, SMS messages, and so on).


Data in data tabs display the data in a variety of sub-tabs, depending on the type of data:

- » **Text view** - View text files as text.
- » **Table view** - a list of all the files of a specific type (images, videos, audio, text, and so on) that were found during the data analysis process.
- » **Thumbnail view** - view images by thumbnail (for images only).
- » **Folder view** - view the folder structure of the data files paths in the reconstructed file system (for data files only).
- » **Image view** - view the image. See [Viewing image files \(on page 58\)](#).
- » **File Info** - view information about the file.

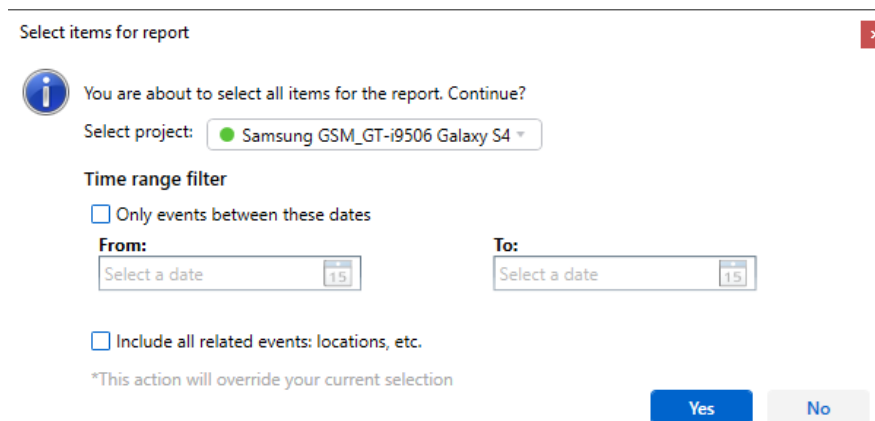
### 3.2.3.1. Working in data tabs

#### Selecting items

Select items in the data display area to include them in any report you generate. By default, all items are selected.

- » To select multiple items, hold the SHIFT or CTRL keys (consecutive and nonconsecutive selection).
- » When an item is selected, press the space bar to select or clear the check box, which indicates if the item should be included or excluded from the report.
- » To select all items at once, click  in the column header (table view, thumbnail view and timeline).
- » To select items and optionally include a timeframe:

1. Click  and select **Select items for report**.




2. To select all click **Yes**.
3. To set a timeframe for selection:
  - a. Check **Only events between these dates**.
  - b. Select the **From** and **To** dates.
  - c. Click **Yes**.




To include related events select **Include all related events: locations, etc.** This action overrides the current selection.

#### Unselecting items

Unselect items in the data display area to exclude them from any report you generate.

- » To unselect all items at once, click  in the column header (table view, thumbnail view and timeline).



Unselect items for report ✕

 You are about to clear all items for the report. Continue?

Select project: ● Samsung GSM\_GT-i9506 Galaxy S4 ▾

**Time range filter**

☐ Only events between these dates


**From:** Select a date  **To:** Select a date 

☐ Include all related events: locations, etc.

\*This action will override your current selection

Yes No

- » To unselect items and optionally include a timeframe:

1. Click  and select **Unselect items for report**.
2. To unselect all click **Yes**.
3. To set a timeframe to unselect items:
  - a. Check **Only events between these dates**.
  - b. Select the **From** and **To** dates.
  - c. Click **Yes**.

## Sorting columns

Sort each column alphabetically or by time.

- » Click the column header to toggle the order.

## Re-ordering the columns

For your convenience, you can change the order of the columns. Your preference is retained for the duration of the session.


- » Drag the desired column to the desired location.

## Hide or show columns

- » Right-click the column header and select the column name in the list.







## Viewing more information

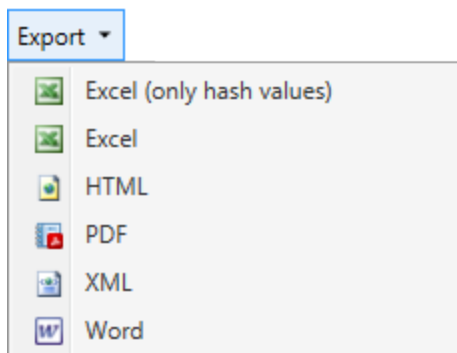
For data tabs containing textual information, by default the right pane is open, displaying the selected item's information.

- » To close or open the right pane, click .

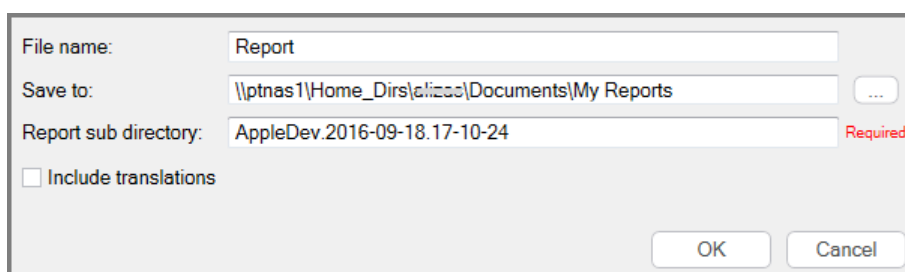



## Exporting data

1. To export the data in a particular tab, click the desired output in the toolbar: Excel , HTML , PDF , XML , KML  (location data only), or EML  (email data only).



The Export Dialog Window appears.



2. Do one of the following:
  - » Enter the path where you want to save the report.
  - » Click  and browse to and select the desired location.
3. Select the **Include translations** check box to include translated data.
4. Click **OK**.

The report is generated, and a message appears asking if you would like to open it in third party software.

5. Click **Yes** or **No**.

The file is opened in the default third party software.




When exporting to EML, a file is created for each email.

### 3.2.3.2. Table view for data files

For data files, the table shows the following information:

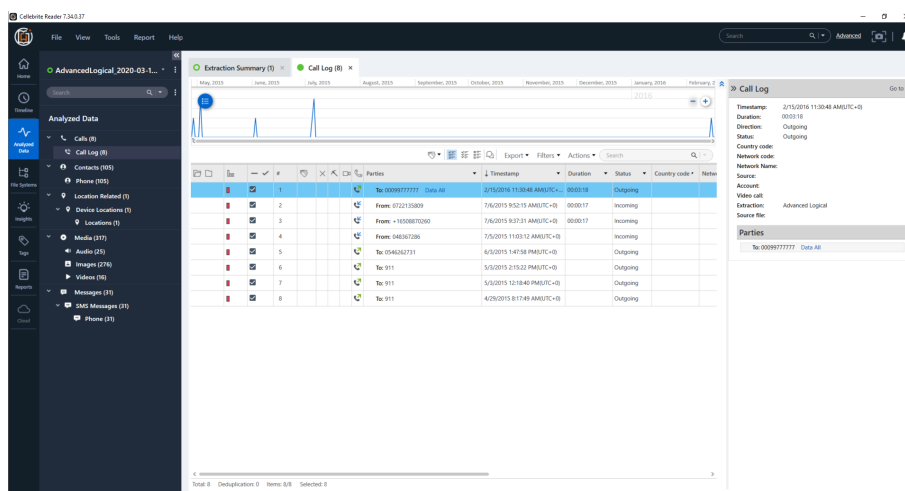
Check box	Indicates whether to include (checked) or exclude (unchecked) the item in the report generated.
-----------	---

<b>Del?</b>	An icon indicating if the data file was deleted  or has an unknown status (gray dot).
<b>Image</b>	A thumbnail of the image or an icon of the file type.
<b>Name</b>	The file name.
<b>Path</b>	The root path of the data file.
<b>Size</b>	The size of file.
<b>Metadata</b>	Additional metadata of the data file.
<b>Created</b>	The creation time stamp of the data file.
<b>Modified</b>	The modification time stamp of the data file.
<b>Accessed</b>	The last access time stamp of the data file.

In addition, indicators are displayed to show attachments, indicate video calls, and to show even direction.

### 3.2.3.3. Table view for analyzed data

For analyzed data, table view tabs display a list of all the events of a specific type (Call Log, Contacts, Instant messages, and so on) that were found during the data analysis process.



ID	Party	Time	Duration	Status	Country code
1	To: 0099777777	5/7/2015 11:30:48 AM UTC+0	00:01:15	Outgoing	
2	From: 072113000	1/6/2015 9:52:15 AM UTC+0	00:00:17	Incoming	
3	From: +1500870200	1/6/2015 9:57:31 AM UTC+0	00:00:17	Incoming	
4	From: 040307206	1/5/2015 11:03:12 AM UTC+0		Incoming	
5	To: 0146262731	6/5/2015 1:47:58 PM UTC+0		Outgoing	
6	To: 911	5/5/2015 2:15:02 PM UTC+0		Outgoing	
7	To: 911	5/5/2015 12:18:40 PM UTC+0		Outgoing	
8	To: 911	4/29/2015 8:17:49 AM UTC+0		Outgoing	

Call Log Details:

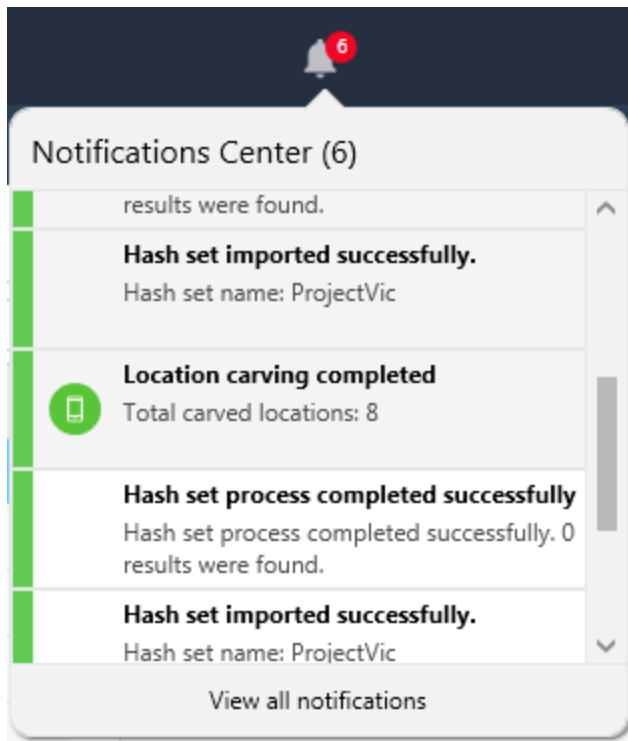
- Timestamp: 2/15/2016 11:30:48 AM UTC+0
- Duration: 00:01:15
- Direction: Outgoing
- Status: Outgoing
- Country code:
- Network code:
- Network Name:
- Source:
- Account:
- Video call:
- Advanced Logical
- Source file:
- Parties: To: 0099777777 Data: 00

### 3.2.4. Notifications center

The Notification center provides improved messaging to enable you to work seamlessly with notifications that keep you up to date with new features and capabilities of Cellebrite Reader so you will never miss a thing. In the Notification Center, you can view the latest alerts, news, warnings, and completed actions.

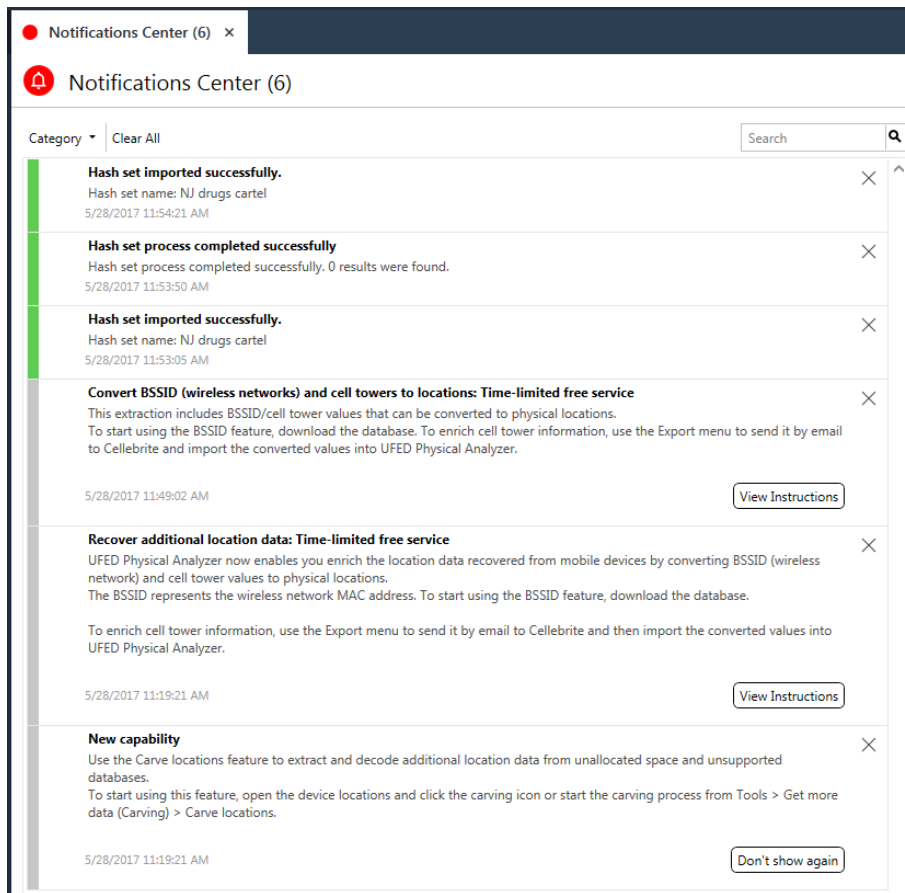
To see your notifications.

1. Click Notifications () on the top right. The following window appears.



The notification counter resets to zero after the messages have been reviewed.

2. To open the Notifications center, click **View all notifications**. The following window appears.



From this window, you can select the message category type to display, that is: Error, Information, Success, or Warning. You can also clear all the existing messages, search for a particular message, view details about the message, and hide messages.

## 4. Locating and analyzing information

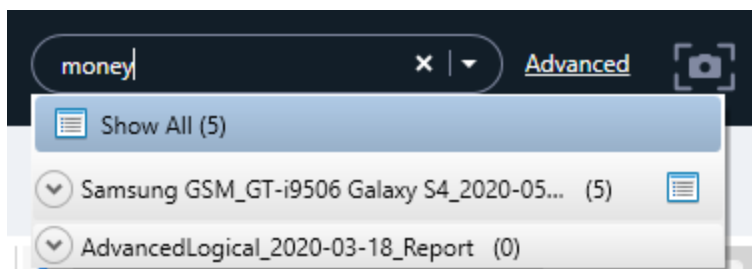
This section describes how to browse, search, filter, bookmark, and manage the information in your project.



### 4.1. Searching for information in all open projects

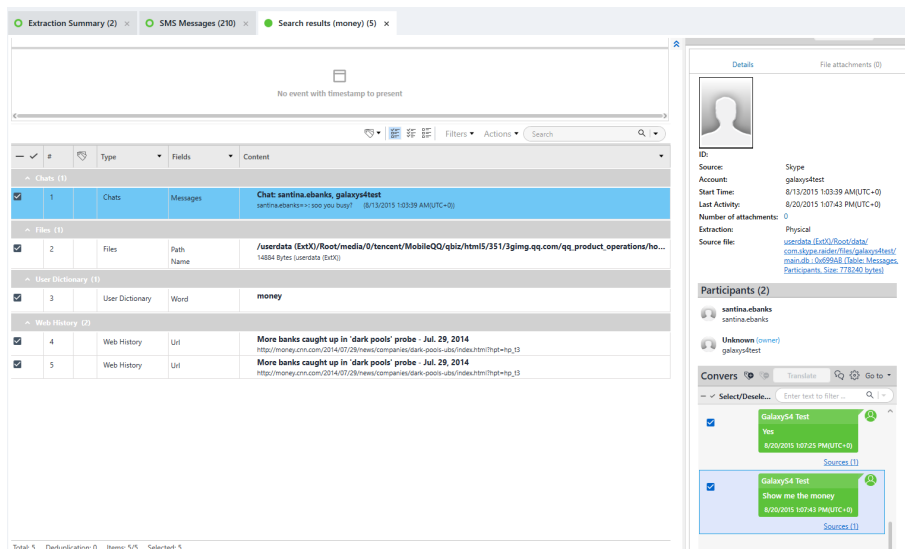
Use the all project search box in the toolbar to search for information in all open projects.


1. Type any string in the search box.

A list of matching results appear under the search box. The results are sorted by open project. Within each open project, the results are sorted by categories according to type (messages, contacts, files, and so on). The number of matching results found in each type category is also displayed.



2. Click  to collapse or expand the projects.
3. Do one of the following:
  - » Click  next to the project name to view the results of the search in that extraction in a tab in the data display area.
  - » Select **Show All** from the top of the quick results list to display a Search results tab in the data display area listing all the matching search results. The matching string in each item is indicated. As in the quick results list, the Search results tab lists the results by type. An example is displayed next.



You can create tags for the global search results items by selecting the **Tag All** or **Tag** options by clicking , however Device Info and folder files cannot be tagged.



Your recent search activity (up to 20 searches), including All projects search and table search are saved, until you close the application.

## 4.2. Searching for information in a data tab

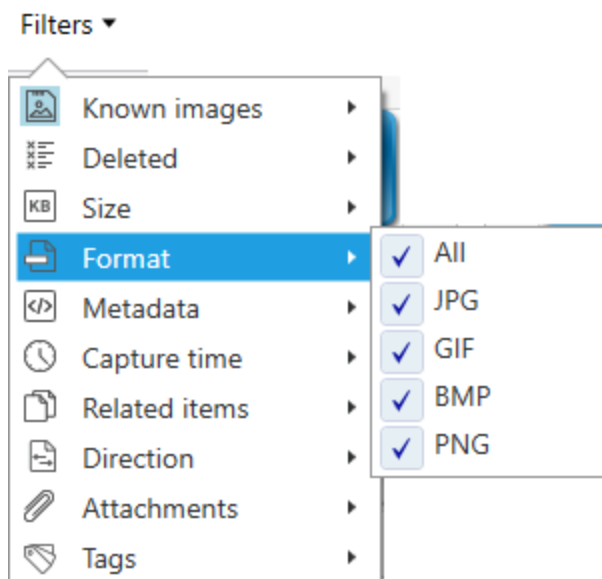
In **Table View** tabs, search for a particular item within the data table. The search is performed on all the data entries within the table.

» In the **Table Search** box, enter any string.

The table updates to display only items containing the string you entered.














## 4.3. Using the quick filter

To improve accessibility the filters are now grouped under simple menus. An example is displayed next.

















Use the quick filters to filter data in Table View tabs.

	Only-non system	Display native or non-system images. Filter images that come with the device or as part of an app installation. By default, all system images are filtered. You can change this setting under <b>Settings &gt; Data Files</b> .
	Show all	Display all items. This filter overrides the filters applied with the following three filters: Only selected, Only unselected, and Deleted.
	Only selected	Display only items that are selected.
	Only unselected	Display only items that are not selected.
	Deleted	Display only deleted items.
	Show all image sizes	Display all images. This filter overrides the filters applied with the following three filters: Display images above 30 KB, above 100 KB, and above 500 KB.
	Display images above 30 KB	Display only small images above 30 KB.

	Display images above 100 KB	Display only medium-sized images above 100 KB.
	Display images above 500 KB	Display only large images above 500 KB.
	Filter images (by signature)	Click to enable file type filtering: JPEG, GIF, BMP, or PNG.
	Show JPEG	Display JPG or JPEG files.
	Show GIF	Display GIF files.
	Show BMP	Display BMP files.
	Show PNG	Display PNG files.
	Metadata	Filter image and video files by <b>Metadata</b> ( <b>All</b> , <b>Without metadata</b> or <b>Has metadata</b> ) and <b>Location</b> ( <b>All</b> , <b>Has location</b> or <b>Without location</b> ).
	Capture time	Filter image and video files by capture time. The maximum range is displayed by default, and you can select a specific date and time range.
	Translation filter	Filter translated text to display all text, translated text or text that has not been translated.
	Related items	Filter related items for extractions, which is very useful when working with the Multiple Extractions feature. <b>All</b> displays all items, <b>Only deduplications</b> displays only items that include deduplications (duplicate or redundant data), <b>Only non-deduplications</b> displays only items that do not include deduplications, and <b>Only items with additional data</b> displays only items that include additional information.
	Translation commands	Translate all or selected texts, or delete translations.
	Conversation view	Open a conversation tab that displays the item and related messages.



	Open messages	Open all messages within a conversation in a table view.
	Attachment	Filter data files with attachments. <b>All</b> is for all data files, <b>Attachments</b> is for data files with attachments, and <b>Not attachments</b> is for data files that are not attachments.
	Attachment filter	Filter attachments that were sent or received. <b>All</b> is for all attachments, <b>Sent</b> is for attachments that were sent, <b>Received</b> is for attachments that were received, and <b>Unknown</b> is for unknown attachments.
	Attachment source app	Filter by the attachment's source app. All apps in the extraction are listed. Select the apps to display and then click <b>Finish</b> .
	Tag	Tag selected items.
	Remove tag	Remove a tag from the selected items.
	Manage tags	Open the Manage tags window.
	Open SQLite wizard	Open the SQLite wizard to build SQL queries and map database fields to Cellebrite Reader models.
	Hide/view lower pane	Hide the lower pane with map item details. Click again to open the pane.
	Hide/view right pane	Hide the right pane with item details. Click again to open the pane.
<b>Export</b>	Export	Export the current view to an Excel (only hash values), Excel, HTML, PDF, XML, Word file, Project VIC (JSON), or GriffEye format (* C4P Index.xml). You can import the exported image or video files into Griffeye using a C4All XML data source.
	Location filter	Filter the locations displayed on the map.
	Retrieve address	Retrieve a physical address for the selected location.

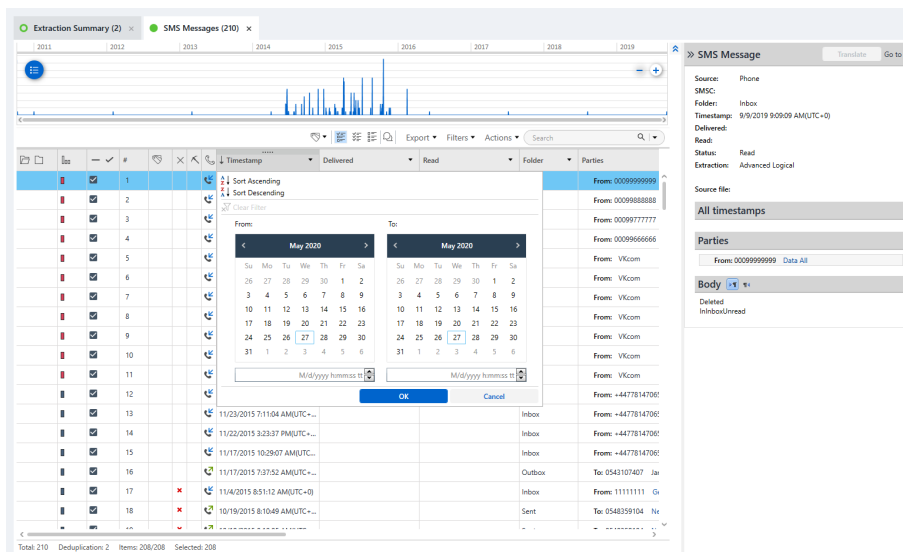
	Group by	Group selected images or videos by time captured/recorded, created, modified, accessed, or deleted, or by camera make or model.
	Remove all filters	Remove all applied filters.



The toolbar items are context-sensitive, and only appear when relevant data is displayed.

## 4.4. Using the advanced filters

In any Analyzed data or Data file window, the listed results are filtered by column. Click on the relevant column heading to view filter and sort options. An example is displayed next.



The screenshot displays a software window titled 'Extraction Summary (2)' and 'SMS Messages (210)'. It features a timeline view at the top and a data table below. A filter dialog is open, showing a date range from May 2020 to May 2020. The table has columns for 'Timestamp', 'Status', and 'Parties'. The filter dialog also includes a 'Sort' section with options for 'Sort Ascending' and 'Sort Descending'. The table shows various entries with timestamps and status indicators.



When a filter is selected, only relevant results will be displayed.

## 4.5. Using advanced search

Using the new Advanced Search capability, narrow the scope of queries by applying filters and specifying additional requirements for a search. This functionality enables:

- » Multiple keywords search
- » And, or and exclude
- » Searching in files content

### To start using the Advanced Search:

1. Click **Advanced** at the top right of the screen.

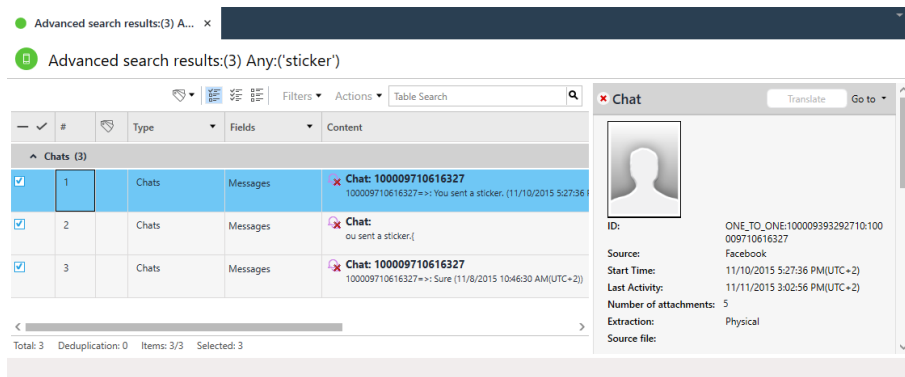


The following window appears.

A light blue header bar at the top of the dialog box contains the text 'Advanced search'. Below this, there are three radio button options for search criteria: 'Any of these terms:' (selected), 'All of these terms:', and 'None of these terms:'. Each option has a corresponding text input field with a dropdown arrow. The first field contains 'e.g. Apple, orange, tomato', the second contains 'e.g. mackinaw peaches, Jonathan apples', and the third contains 'e.g. Cherry'. Below these fields is a small note: '\* Use a comma to separate terms'. A horizontal line separates this section from the next. Below the line is a 'Search in:' label followed by a dropdown menu showing 'SOMA\_iOS\_12.0\_iOS Method1.fuzzy' with a green dot icon. At the bottom left is a checkbox labeled 'Search file contents' with a note below it: 'Note: This process may take several minutes.' At the bottom right are two buttons: a grey 'Cancel' button and a blue 'Search' button.

2. Enter any, all or none of these terms.
3. Use a comma to separate terms.
4. Select the project (or search all projects).
5. Optionally select **Search file contents** to search in the contents of files within the extracted device (including file formats such as XML, plist, txt, DB, PDF, xlsx, DOCX, etc).
6. Click **Search**.

Search results are presented in a separate Advanced search results tab, where you can view results, tag and mark items to include in your report.



## 4.6. Accessing conversation view

Communication-based data, such as call logs, email, Instant messages, and so on, can be displayed in a conversation view layout for easier and better tracking over the communication between two or more parties. You can search for messages within a chat, select the messages to include within a report (by default all chat messages are included), or export the conversation.




Messages in the conversation have an indication of how they were sent - PC, mobile, or Siri (for native iMessages).

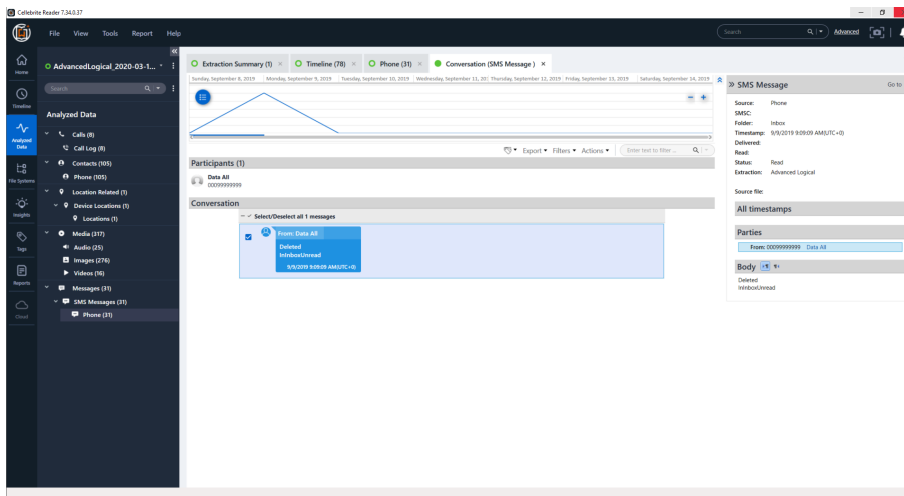


In some cases, mainly when messages have been deleted, they cannot be forensically placed in a Chat. To maintain forensic accuracy of the messages, they will be placed in Instant messages and available for review under **Analyzed data > Instant messages**.

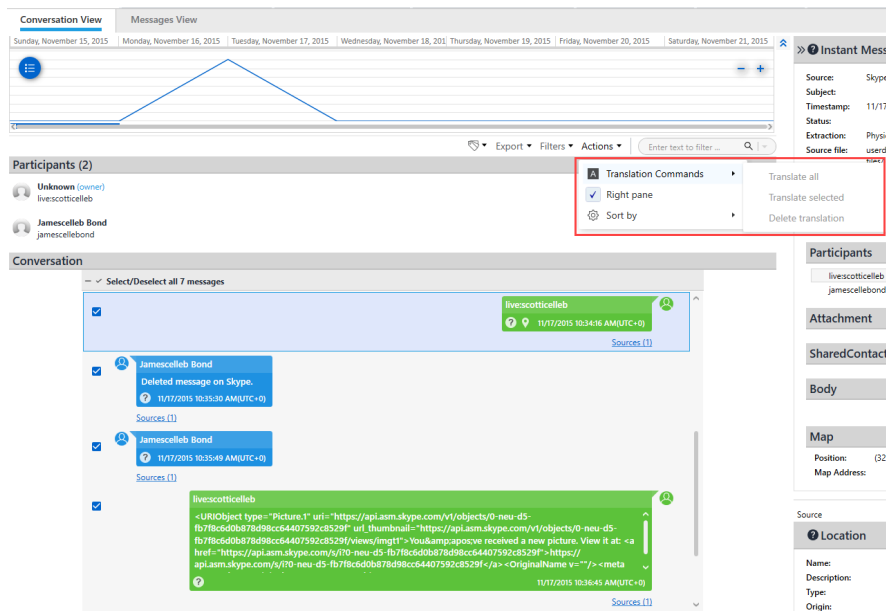
### To access and use conversation view:







1. In a communication-based data table, select one of the records.
2. Click .

A conversation tab opens, displaying related items as a conversation between the sending and receiving parties of the selected item.



3. To translate or delete translated text, click **Actions** and then select **Translate all**, **Translate selected** or **Delete all translations**.



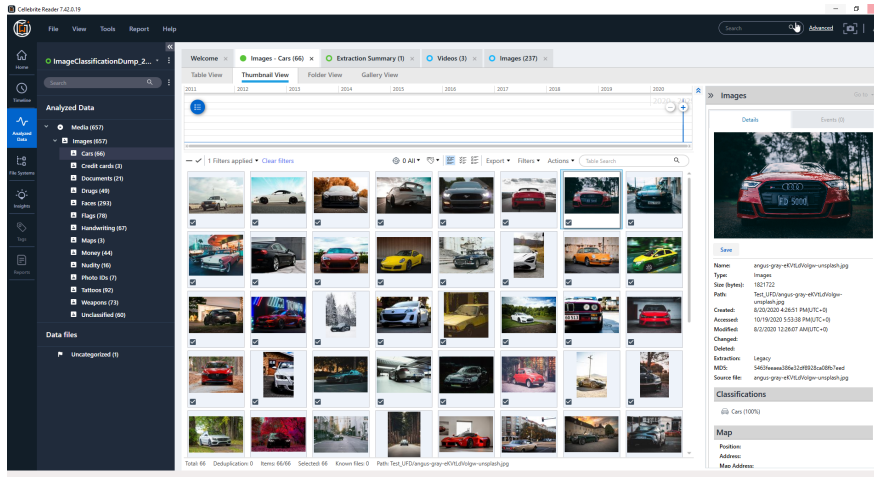
4. To export the conversation, click **Export**.
5. Select the desired output:  
Excel , HTML , PDF , XML , or Word .
6. To change the order of the conversation, click **Actions > Sort by** and then select **Oldest message first**, or **Newest message first**.
7. To filter messages, enter text in the search box or click **Filter**.
8. To add or edit tags, click .
9. Select a check box to include specific messages in the report, (or select all messages or no messages).

## 4.7. Viewing image files

1. In the Analyzed data tab, go to **Media > Images**.
2. Double click on Images to open the Images tab.



If media classification was run on the extraction, you can double click the relevant category to open its tab.



In the Images tab, you can select the view you wish to see the images. Available views include:

### » Table view

View a list of all images in table format. Double click on an image to open in a separate tab.

### » Thumbnail view

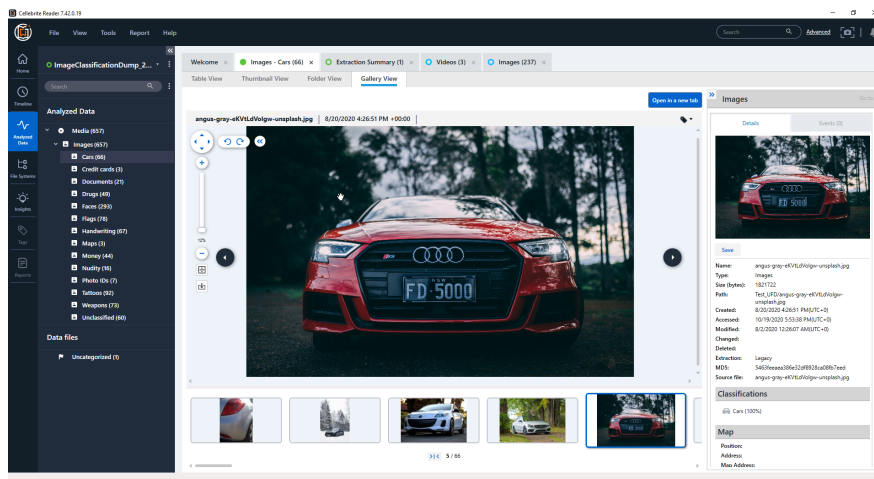
View images by thumbnail. Double click the image to open in Gallery view.

### » Folder view

View the folder structure of the data files paths in the reconstructed file system. Double click an item to open in Gallery view.

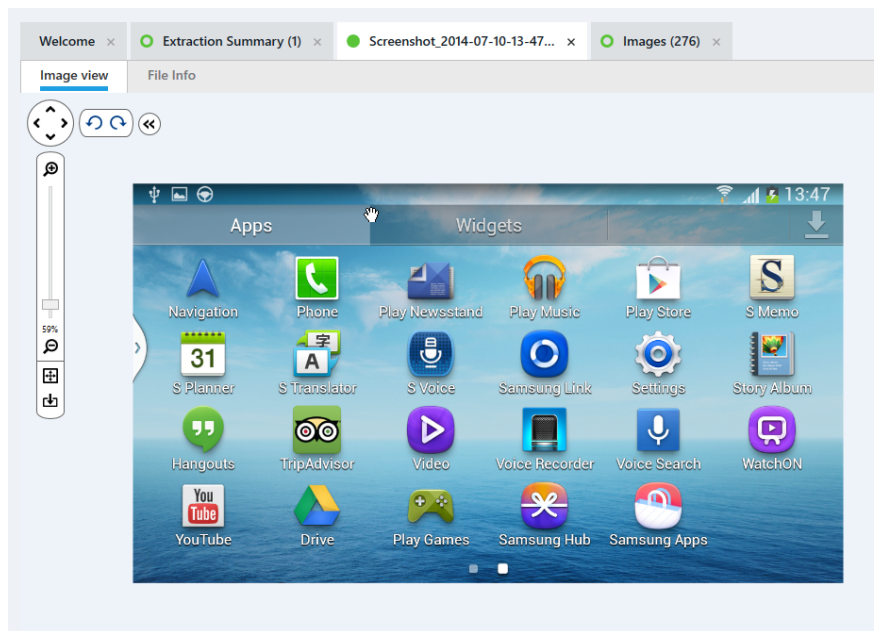
### » Gallery view

View images in gallery format, easily scrolling through images.



## Viewing single images

1. In Gallery view, click **Open in a new tab** to view the image in a separate tab.



The sub tabs for each image include:

- » **File info** - view the file information. For example, the File metadata section includes information such as the Capture Time, which is the date and time a photo was taken.
- » **Image view** - Use the image controls as needed.



When the image is enlarged, click to navigate the image.



Rotate image clockwise and anti-clockwise.



Zoom in and out. You can also adjust the zoom using the slider.



Zoom to fit the tab.



Reset the zoom to 100%.



Hide image controls.

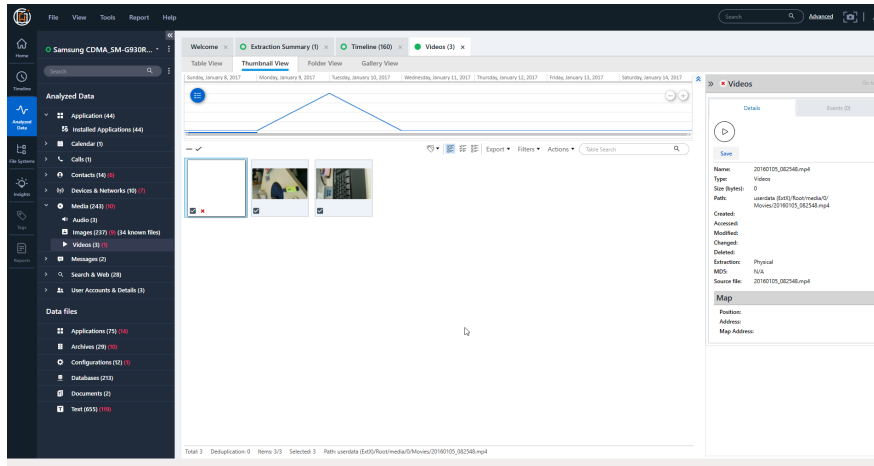


## 4.8. Viewing video files

1. In the Analyzed data tab, go to **Media > Videos**.
2. Double click on Videos to open the Videos tab.



If media classification was run on the extraction, you can double click the relevant category to open its tab.



In the Videos tab, you can select the view you wish to see the videos. Available views include:

### » Table view

View a list of all videos in table format. Double click on a video to open in a separate tab.

### » Thumbnail view

View videos by thumbnail. Double click the video to open in Gallery view.

### » Folder view

View the folder structure of the data files paths in the reconstructed file system. Double click an item to open in Gallery view.

### » Gallery view

View videos in gallery format, easily scrolling through videos. If media classification was run on the extraction, view additional category details.

## Viewing single videos

1. In Gallery view, click **Open in a new tab** to view the video in a separate tab.

The sub tabs for each video include:

- » **File info** - view the file information. For example, the File metadata section includes information such as the Capture Time, which is the date and time the video was taken.
- » **Video view** - Play the video, view frames according to media categories.

## 4.9. Enrichment of BSSID and cell IDs

Cellebrite Reader enables you to enrich the location data recovered from mobile devices by converting BSSID (wireless network) and cell IDs (cell tower) to physical locations. When viewing location data, BSSID values are displayed. An example is displayed next.

The screenshot displays the Cellebrite Reader interface. The main window shows a list of wireless networks under the heading "Wireless Networks (1189)". The list has columns for checkboxes, ID, Last Connected, Last Auto Connected, Timestamp, End Time, BSSID, and SSID. A red box highlights the BSSID column, which contains the value "B86472776A9A" for multiple entries. The SSID column shows "Cellebrite-Mobile" for most entries, with "Cellebrite-Guests" and "EvoGal" for others. The right-hand pane shows the details for the selected network, including BSSID, SSID, Security Mode, Last Connected, Last Auto Connected, Timestamp, End Time, Package, Extraction, Source File, Map, Position, Map Address, Source, and Location. The Location section shows the Name "Cellebrite-Mobile (B86472776A9A)", Description "com.google.android.apps.gcs", Type, Timestamp, End Time, Map Address, Precision, Confidence, Map, Category, Address, Extraction, and Source File.

ID	Last Connected	Last Auto Connected	Timestamp	End Time	BSSID	SSID
1						Cellebrite-Guests
2						EvoGal
3			07/12/2015 15:09:32(UTC+0)		B86472776A9A	Cellebrite-Mobile
4			07/12/2015 14:49:32(UTC+0)		B86472776A9A	Cellebrite-Mobile
5			07/12/2015 14:29:28(UTC+0)		B86472776A9A	Cellebrite-Mobile
6			07/12/2015 14:08:09(UTC+0)		B86472776A9A	Cellebrite-Mobile
7			07/12/2015 13:45:20(UTC+0)		B86472776A9A	Cellebrite-Mobile
8			07/12/2015 13:27:04(UTC+0)		B86472776A9A	Cellebrite-Mobile
9			07/12/2015 13:19:37(UTC+0)		B86472776A9A	Cellebrite-Mobile
10			07/12/2015 13:06:59(UTC+0)		B86472776A9A	Cellebrite-Mobile
11			07/12/2015 12:44:03(UTC+0)		B86472776A9A	Cellebrite-Mobile
12			07/12/2015 12:25:48(UTC+0)		B86472776A9A	Cellebrite-Mobile
13			07/12/2015 12:22:36(UTC+0)		B86472776A9A	Cellebrite-Mobile
14			07/12/2015 12:18:50(UTC+0)		B86472776A9A	Cellebrite-Mobile
15			07/12/2015 12:05:35(UTC+0)		B86472776A9A	Cellebrite-Mobile
16			07/12/2015 11:44:39(UTC+0)		B86472776A9A	Cellebrite-Mobile
17			07/12/2015 11:33:41(UTC+0)		B86472776A9A	Cellebrite-Mobile
18			07/12/2015 11:22:18(UTC+0)		B86472776A9A	Cellebrite-Mobile
19			07/12/2015 11:04:38(UTC+0)		B86472776A9A	Cellebrite-Mobile
20			06/12/2015 09:47:10(UTC+0)		B86472776A9A	Cellebrite-Mobile
21			07/12/2015 09:54:24(UTC+0)		B86472776A9A	Cellebrite-Mobile
22			07/12/2015 09:48:27(UTC+0)		B86472776A92	Cellebrite-Mobile

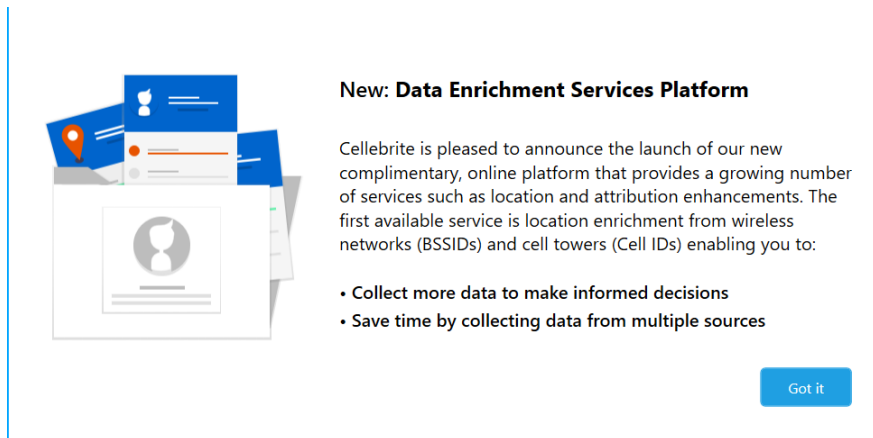


If all BSSIDs/cell IDs have already been enriched, then the Enrichment feature is not available.

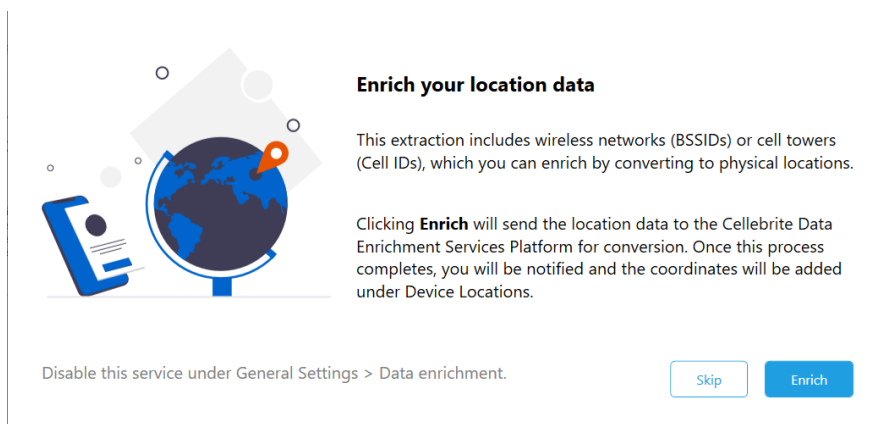
## 4.9.1. Online enrichment

### To enrich BSSID and cell tower IDs (online):

1. If you have an Internet connection and you open an extraction with BSSID or cell IDs, the following window appears (the first time only).



2. Click **Got it**. The following window appears.



3. Click **Enrich** to convert to the physical locations via the Enrichment service.



You will receive a notification when the process completes and the new locations will be added under **Device Locations**.



You can also access **Online enrichment** from **Tools > Enrichment of BSSIDs and Cell IDs**.

To disable the automatic conversion of BSSID and cell tower IDs to physical locations:

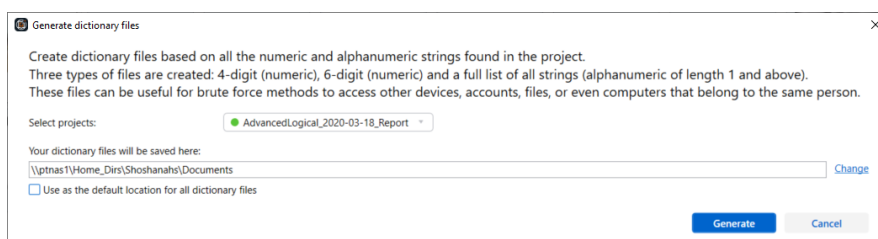
1. From the **Tools** menu, click **Settings**.
2. Under **General settings**, scroll down to **Data enrichment**.
3. Clear the **Convert BSSID values (wireless network) to physical locations** check box.

## 4.10. Generating dictionary files

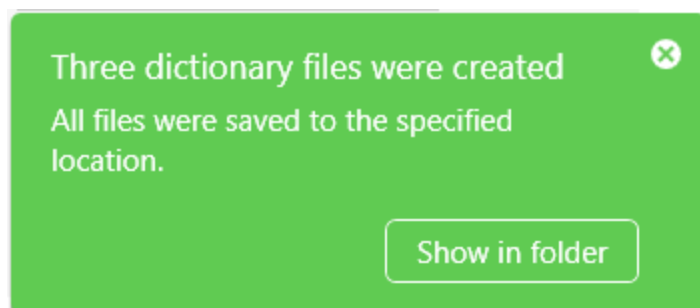
Create dictionary files based on all the numeric and alphanumeric strings found in the project. Three types of files are created: 4-digit (numeric), 6-digit (numeric) and a full list of all strings (alphanumeric of length 1 and above). These files can be useful for brute force methods to access other devices, accounts, files, or even computers that belong to the same person.

To generate the word lists:




1. Select **Tools > Generate dictionary files**. The following window appears.



2. Select the required project.
3. Click **Change** to change the default location where the text files will be saved.
4. Select the **Use as default location for all dictionary files** to change the default location. The default location is specified under **Settings > General Settings**. See [General settings \[on page 91\]](#).
5. Click **Generate**. The dictionaries are created and the following notification is displayed.



6. Click **Show in folder** in the notification to access the word lists. An example is displayed next.

Name ^	Date modified	Type	Size
 4digits.txt	7/1/2019 2:22 PM	Text Document	1 KB
 6digits.txt	7/1/2019 2:22 PM	Text Document	1 KB
 all.txt	7/1/2019 2:22 PM	Text Document	166 KB

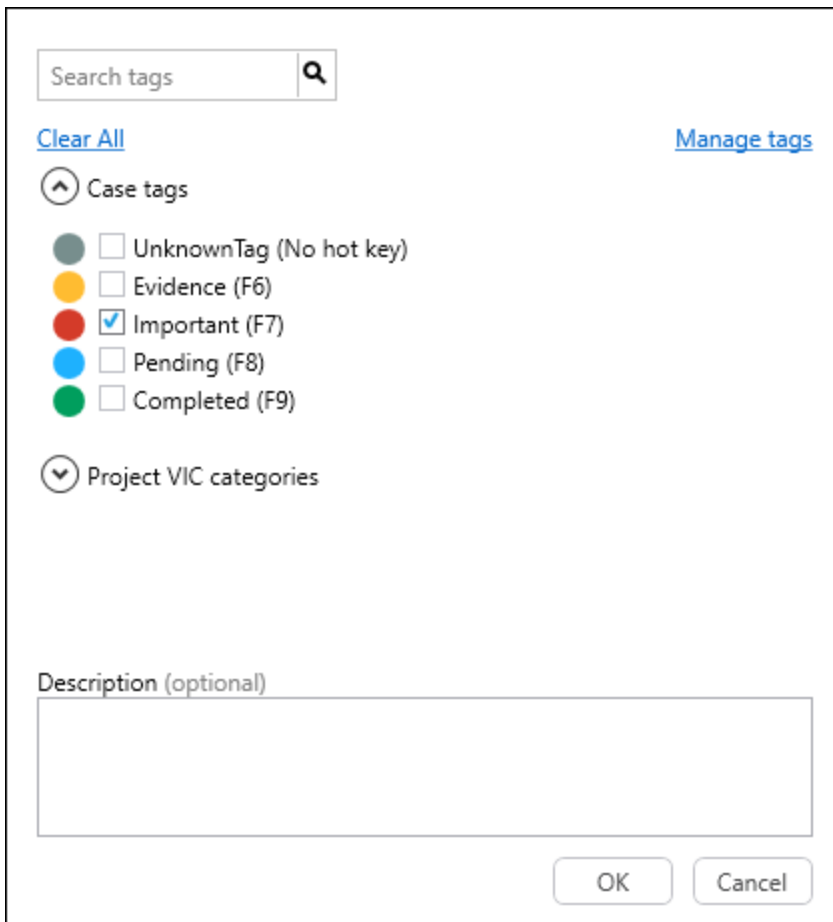
## 4.11. Tags

While reviewing events, contacts, etc., the investigator can tag items for future reference. Each item can have multiple tags. A tag is essentially a quick reference you can create on individual items:

- » An **Analyzed Data** item such as a call from the call log, a contact record, an email message, etc. See [Analyzed data \(on page 26\)](#).
- » A **Data Files** item such applications, archives, configurations, databases, and so on. See [Data files \(on page 28\)](#).

## To tag an item:

1. Click . The following window appears.



A dialog box for tagging an item. It features a 'Search tags' input field with a magnifying glass icon. Below this are two links: 'Clear All' and 'Manage tags'. The main content area is divided into two sections: 'Case tags' and 'Project VIC categories'. Under 'Case tags', there are five color-coded circles with corresponding checkboxes: 'UnknownTag (No hot key)' (grey), 'Evidence (F6)' (yellow), 'Important (F7)' (red, checked), 'Pending (F8)' (blue), and 'Completed (F9)' (green). The 'Project VIC categories' section is currently collapsed. At the bottom, there is a text area labeled 'Description (optional)' and two buttons: 'OK' and 'Cancel'.

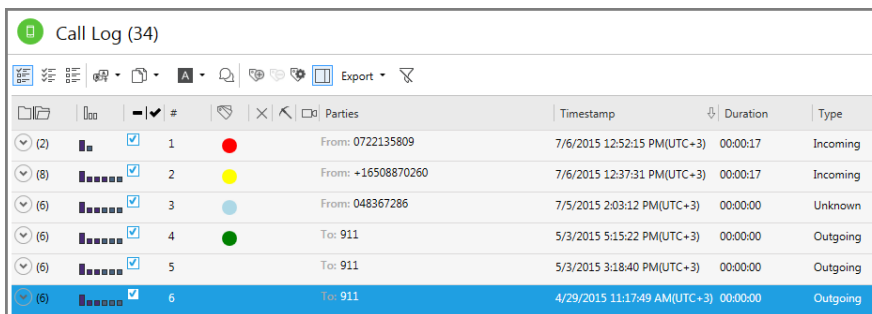


The window also includes Project VIC or CAID categories.



To display other Project VIC/CAID categories, go to **General settings > Hash sets**.

2. Choose the relevant tag and click OK. An example is shown next.



A screenshot of the 'Call Log (34)' window. It shows a table of call records with columns for 'Parties', 'Timestamp', 'Duration', and 'Type'. The first six rows are visible, each with a dropdown arrow on the left and a checkbox. The first row is highlighted in blue.

	Parties	Timestamp	Duration	Type
(2)	1 From: 0722135809	7/6/2015 12:52:15 PM(UTC+3)	00:00:17	Incoming
(8)	2 From: +16508870260	7/6/2015 12:37:31 PM(UTC+3)	00:00:17	Incoming
(6)	3 From: 048367286	7/5/2015 2:03:12 PM(UTC+3)	00:00:00	Unknown
(6)	4 To: 911	5/3/2015 5:15:22 PM(UTC+3)	00:00:00	Outgoing
(6)	5 To: 911	5/3/2015 3:18:40 PM(UTC+3)	00:00:00	Outgoing
(6)	6 To: 911	4/29/2015 11:17:49 AM(UTC+3)	00:00:00	Outgoing



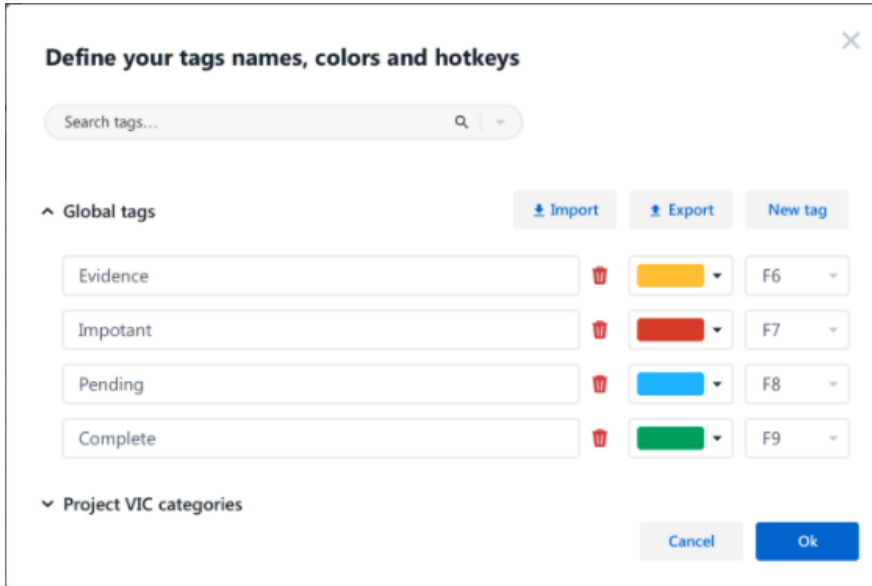
To remove a tag, click .

The tags you create can be viewed via the **Tags** tree item. The number of tags in the project is shown in brackets next to the section name. You can create or remove multiple tags.

Double-click the **Tags** tree item to list the tags in a tab in the data display area. Selected tags are included in reports that you generate.

### To manage tags:


1. Click . The following window appears.



The dialog box titled "Define your tags names, colors and hotkeys" features a search bar at the top labeled "Search tags...". Below the search bar, there are three buttons: "Import", "Export", and "New tag". The main area is divided into two sections: "Global tags" and "Project VIC categories". Under "Global tags", there is a table with four rows of tags: "Evidence", "Impotent", "Pending", and "Complete". Each row has a text input field for the tag name, a trash icon for deletion, a color selection dropdown, and a hotkey selection dropdown. The colors are yellow, red, blue, and green respectively, and the hotkeys are F6, F7, F8, and F9. The "Project VIC categories" section is currently collapsed. At the bottom right, there are "Cancel" and "Ok" buttons.



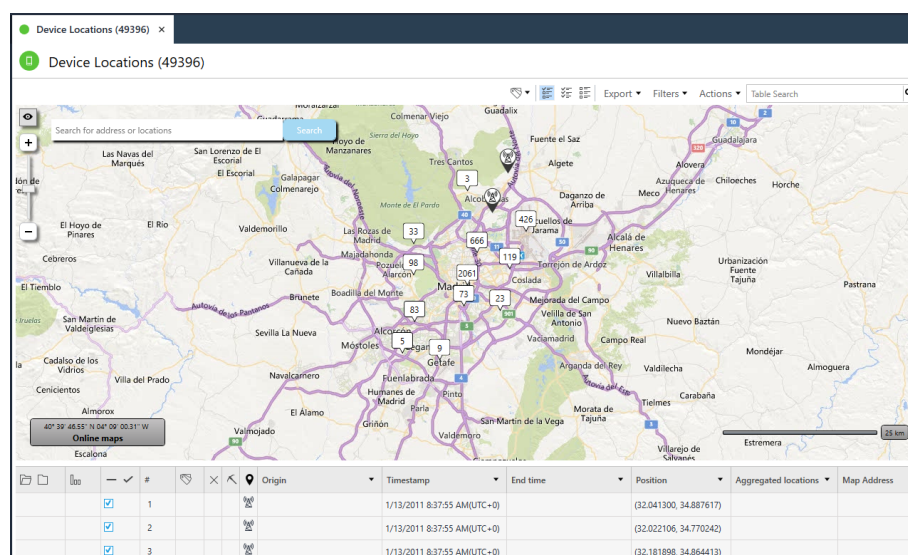
The window also includes Project VIC or CAID categories.

2. Define each tag's name, color, and HotKey, as desired.
3. To delete a tag, click  next to the tag name.
4. To create a new tag, click **New tag**. A new line appears.
5. To export tags click **Export** a list of tag labels.
6. To import tags click **Import** a list of tag labels.



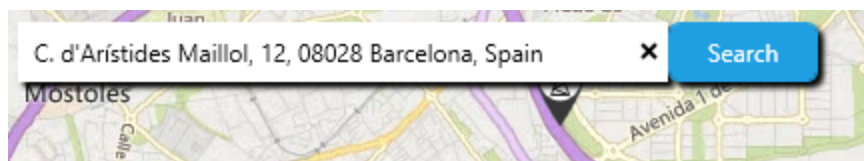
## 4.12. Viewing online maps

The maps function is available to Cellebrite Reader users with a valid license. The locations are presented with an icon displaying the location type. Filter the locations based on multiple attributes including date, time and location type.



### 4.12.1. Search and jump to a location on the map

You can use this capability to view all location related events for a specified address. Search for the specific location or zoom-in to the desired location on the map, and all other location related events that occurred in the vicinity will appear on the map. You can search for a location while working in online mode, by typing an address, position (coordinates) or the name of a place.



### 4.12.2. Device origin

The Origin column classifies each recovered location record by its origin: Device or External. You can view and filter for locations that are related and unrelated to the device user's activities. (This does not mean the device has physically been in this location). For example: A picture taken by the camera on a digital device is classified as a Device location. While a picture received on the device is marked as an External location, because the location is related to the image sender. Classified locations are highlighted with a different color on the map.



Locations that cannot be classified are shown as Blanks i.e., unknown.

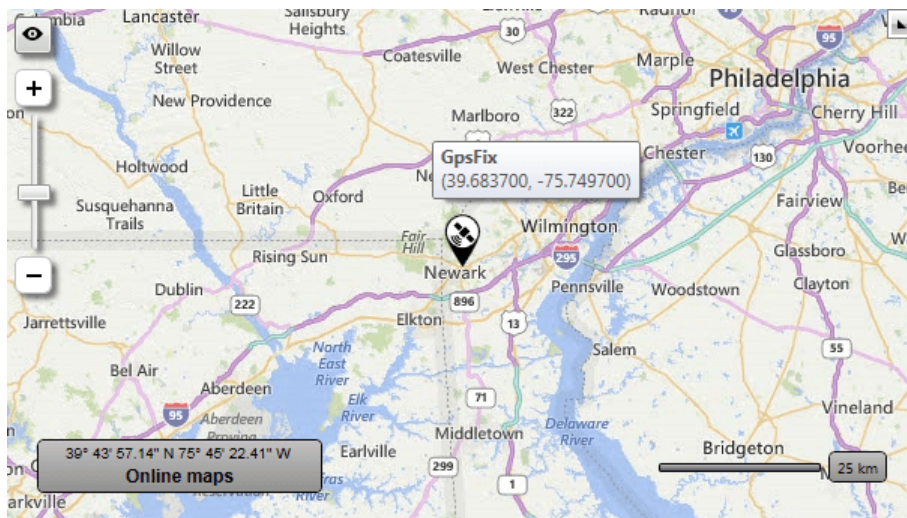
### 4.12.3. Using the map

Users can browse and search topographically-shaded street maps for many cities worldwide. Two types of map views are available to users: Road View and Aerial View.


- » **Road View:** Road view is the default map view and displays vector imagery of roads, buildings, and geography.
- » **Aerial View:** Aerial view overlays satellite imagery onto the map and highlights roads and major landmarks for easy identification amongst the satellite images.









To highlight locations in the table:

- » Click or zoom in to a location on the map.



Related events are displayed on the right pane under Locations.

Locations (11)


1		1/13/2011 10:37:55 AM(UTC+2) (32.102162, 34.851047)	^
2		1/13/2011 10:37:55 AM(UTC+2) (32.102162, 34.851047)	
3		1/13/2011 10:37:55 AM(UTC+2) (32.102162, 34.851047)	
4		1/13/2011 10:37:55 AM(UTC+2) (32.102162, 34.851047)	
5		1/13/2011 10:37:55 AM(UTC+2) (32.102162, 34.851047)	
7		1/13/2011 10:37:55 AM(UTC+2) (32.102162, 34.851047)	
8		1/13/2011 10:37:55 AM(UTC+2) (32.102162, 34.851047)	
9		1/13/2011 10:37:55 AM(UTC+2) (32.102162, 34.851047)	v

Location
Translate
Go to v

Name:  
Description: MCC=425 MNC=1 LAC=5700  
Type:  
Timestamp: 1/13/2011 10:37:55 AM(UTC+2)  
End Time:  
Precision: 17900  
Confidence: 70  
Map:  
Category: Reminder  
Address:  
Extraction: Legacy  
Source file:

To jump or link to the timeline:

- » Click **Go to** on the right pane and select **Timeline**.

A new Timeline tab appears and the selected location is highlighted in the Table view.

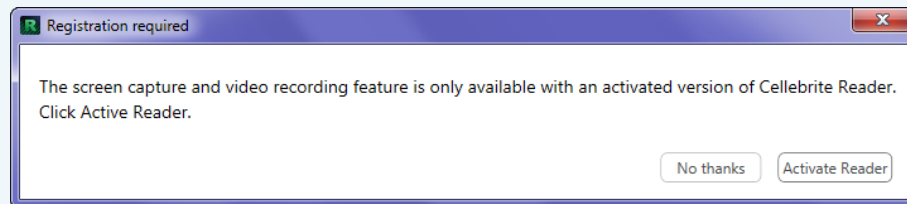
## 4.13. Recording screen captures and video

Use the Capture tool to record screen captures and videos. This enables you to quickly and clearly document and explain your digital investigative processes, build visual reports that are easy to present and share, and communicate with other personnel more effectively.

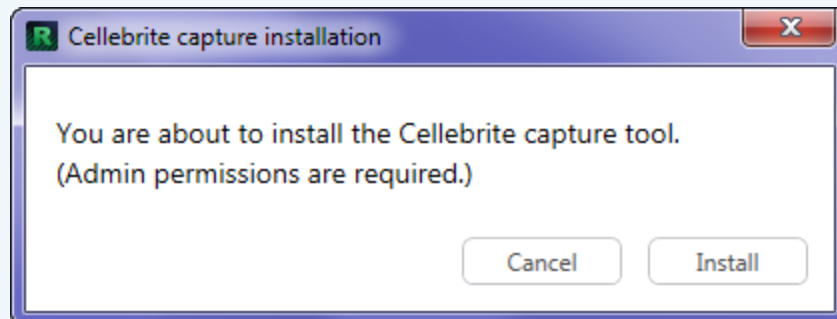
For each screen capture or video recording, you can select an area, enter a label, add notes, save to a project or location on your computer, and include it in a report. The screen captures and videos can be included in all report formats including UFDR files, which can then be presented in Cellebrite Reader.



To use this tool, you need to have an activated version of Cellebrite Reader. For information on how to activate, see [Activating Cellebrite Reader \(on page 11\)](#).



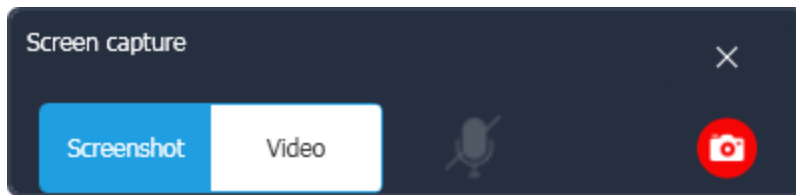
This tool requires a one- time installation (with the proper admin permission).



To use the Capture tool and play video playback, you need Windows Media Player (default version for installed OS or higher).

## To perform a screen capture or video recording:

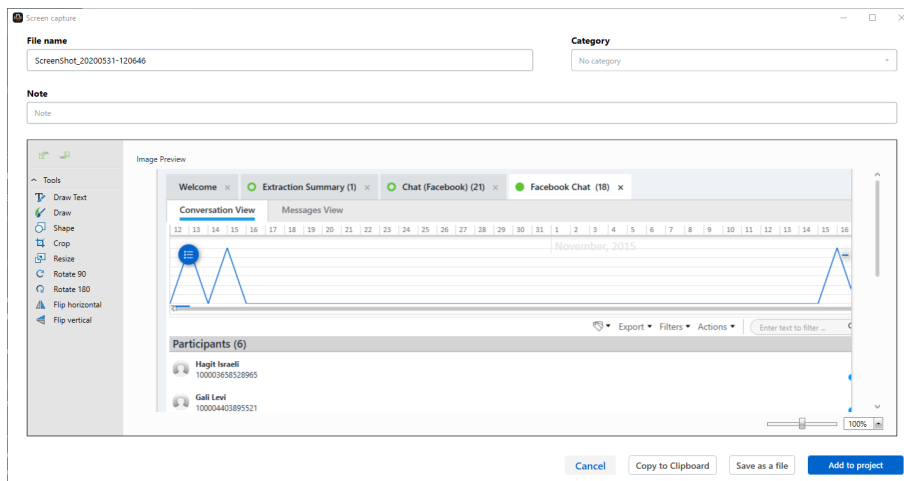
1. Click **Screen capture** (📷). The screen capture window appears.



2. Select **Screenshot** or **Video**.

### 4.13.1. Screenshot

1. Click **Capture** (📷).
2. Select the capture area. The screenshot is taken and the following window appears.



3. Use the default file name or enter a new name.





You cannot use the same file name that exists in another open project.

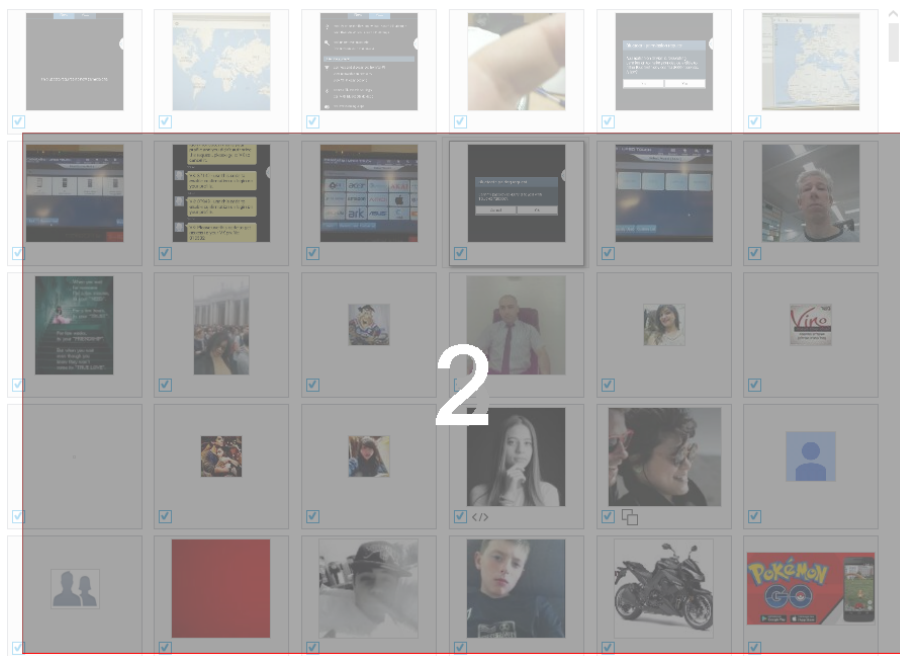
4. Select a category or enter a new category. The system remembers a maximum of 10 categories. The default category is "No category". The screen capture is displayed under the selected category in the project tree.
5. Enter any notes to describe the screen capture.
6. If required, you can use the Tools on the left to add text, draw shapes, crop, resize, rotate, or flip the screen capture.
7. Click **Copy to Clipboard** to copy the screenshot, click **Save as a file** to save the screenshot to your computer (or network location), or **Add to project** to add the screenshot to a specific Cellebrite Reader project.





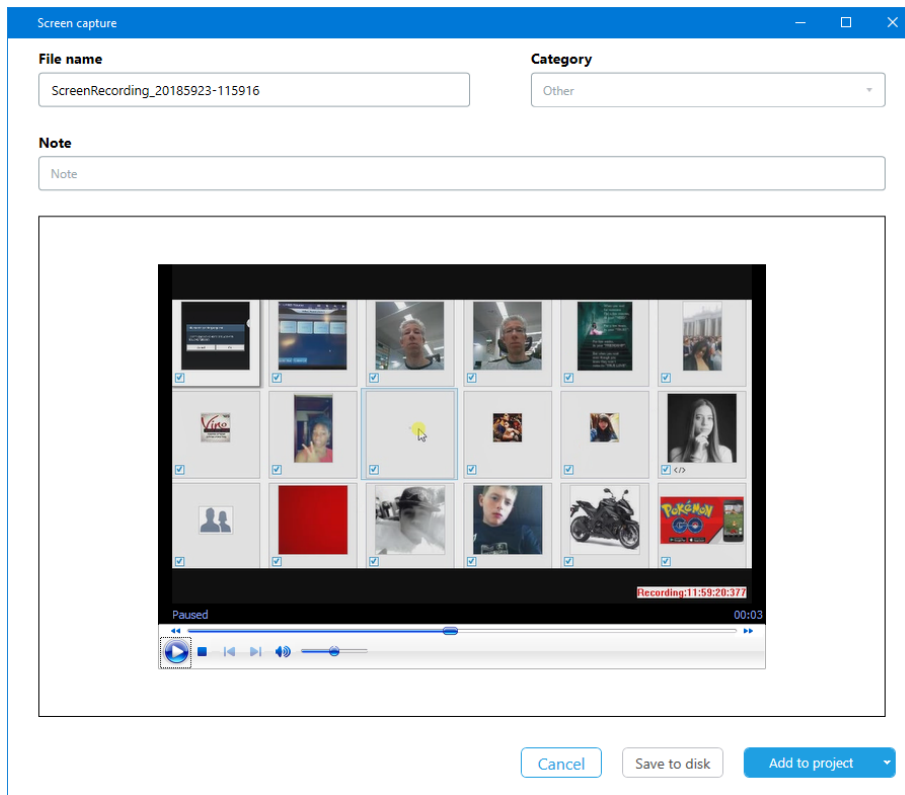
Screenshots and videos are added to the Reports view project tree under **Additional files**.

### 4.13.2. Video

1. Enable or disable the microphone ()
2. Click **Capture** ()
3. Select the capture area. The video recording begins.



4. Perform the relevant actions that you want to record.
5. When you've finished, click **Stop** () or **Pause** ()



6. Use the default file name or enter a new name.



You cannot use the same file name that exists in another open project.

7. Select a category or enter a new category. The system remembers a maximum of 10 categories. The default category is "No category". The video is displayed under the selected category in the project tree.
8. Enter any notes to describe the video.
9. Click **Save as a file** to save the video to your computer (or network location) or **Add to project** to add the video to a specific Cellebrite Reader project.



Videos can be a maximum two hours long.

## 4.14. Media classification

The media classification feature classifies images and videos based on categories that are relevant to a case.

When an extraction is decoded in Physical Analyzer with this feature enabled, machine learning algorithms automatically scan and classify all media items in the case to the following categories:

- |                    |                                      |
|--------------------|--------------------------------------|
| » Camera           | » Jewelry                            |
| » Cars             | » Maps                               |
| » Credit cards     | » Money (cash)                       |
| » Documents        | » Motorcycles                        |
| » Drugs            | » Nudity                             |
| » Faces            | » Photo IDs                          |
| » Flags            | » Screenshots                        |
| » Food             | » Smartphones                        |
| » Gatherings       | » Suspected CSA (Child Sexual Abuse) |
| » Hand hold object | » Tattoos                            |
| » Handwriting      | » Vehicle dashboards                 |
| » Hotel rooms      | » Weapons                            |
| » Invoices         |                                      |

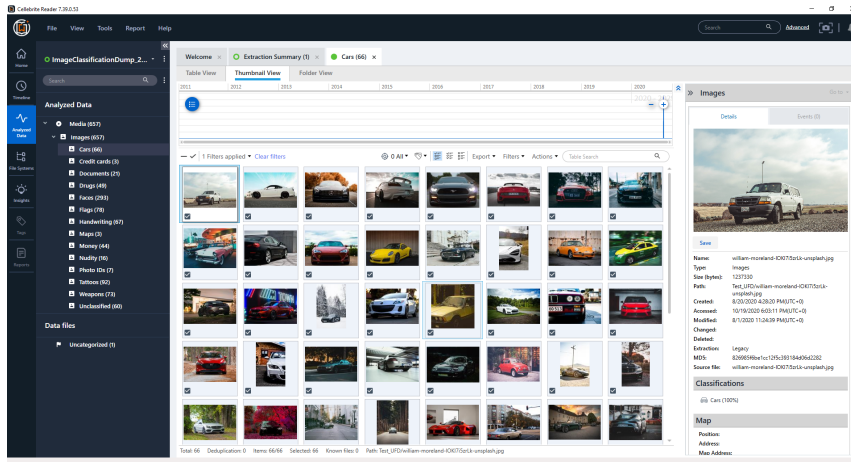
## Viewing and analyzing classified media

Once the report is loaded into Cellebrite Reader, there are three ways to view media items according to their classification.



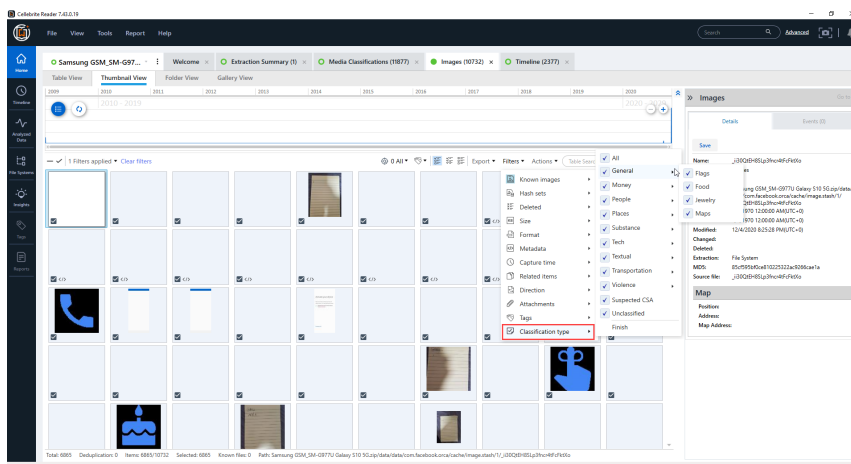
## 1. Analyzed data tree

- Click on the Analyzed data menu item.
- Go to **Media > Images** or **Media > Videos**
- Double click a category to view the items.



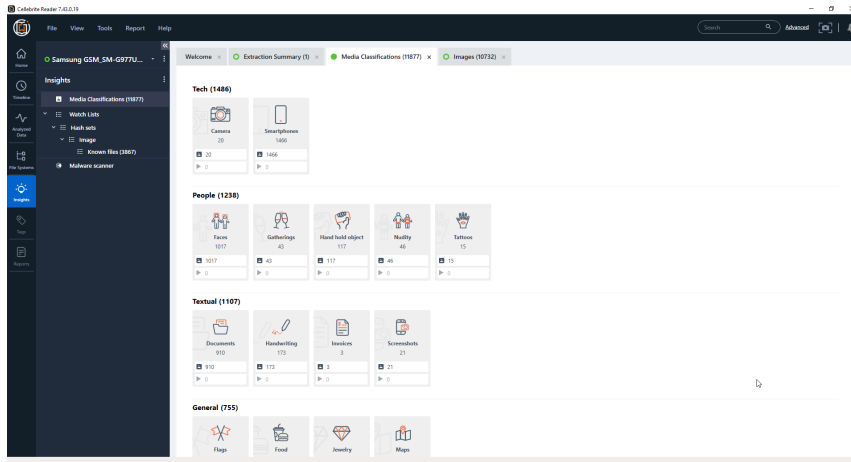
## 2. Filtering the media by classification type

- Click on the Analyzed data menu item.
- Under **Media** tree item, double click **Images** or **Videos**.
- Click **Filters > Classification type**.
- Select or unselect the categories to display.



### 3. Insights

- Go to the Insights menu item.
- Double click **Media classifications**.
- Double click on a category to view the items.

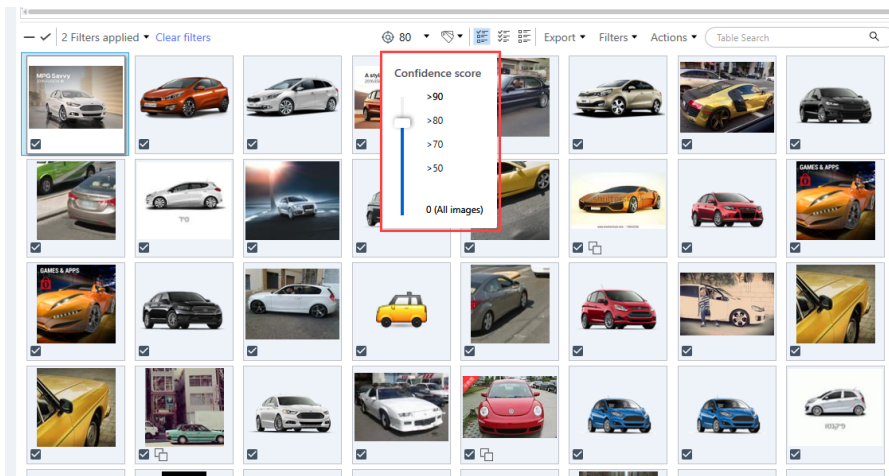


### Media classification score control

Each classified media item is given a score (0-100%) based on classification accuracy. When viewing specific categories, the media items are sorted by score from highest to lowest score.

You can use the classification score filter to display results within a certain range.

In the example below, the classification score filter is set to display only those results with a score of 80% or higher. This filters out less accurate results.



## 5. Generating a report

You can generate a report of the information in the project. Cellebrite Reader provides a report wizard to help you through the steps of creating a report.

To generate a Preliminary device report, see [Generating a Preliminary device report \(on page 89\)](#).


To generate a report, perform the following steps:

1. Select **Report > Generate Report** from the application menu. The Generate Report window appears.

The screenshot shows the 'Generate Report' window. The 'General' tab is selected in the sidebar. The 'General' section contains the following fields: 'File name' (Samsung GSM\_GT-i9205 Samsung Galaxy Mega 6.3\_2019-08-21\_Report), 'Save to' (C:\JK\_Work), 'Report sub directory' (2019-08-21.15-58-56), and 'Project' (Samsung GSM\_GT-i9205 Samsung Galaxy Mega 6.3). The 'Case Information' section includes fields for 'Examiner name', 'Location', 'Case number', 'Case name', 'Evidence number', 'Department', 'Organization', 'Investigator', 'Crime type', and 'Notes'. A list of report formats is shown with checkboxes: 'UFDR (For Cellebrite Reader or Analytics)', 'PDF Report', 'HTML Report', 'Excel Workbook (xlsx)', 'Excel 97-2003 (xls)', 'Word report', and 'XML Report'. At the bottom are buttons for 'Update report settings', 'Previous', 'Next', and 'Cancel'.

2. Enter the relevant information in the **General** fields.

Field	Description
File name	Enter or edit the name for the new report.  The default report name is: project_name_date_Report e.g., Drone_DJI- Inspire 2_2017-12-25_Report  When more than one project is selected, the default name is: [Project_name]_date_Report e.g., [Project_name]_2017-12-25_Report
Save to	Enter a location where the new report folder will be created.
Report sub directory	Enter a name for the new sub-folder containing the report(s). The default sub directory name is the current date and time.

Field	Description
Project	Choose the project(s) to include in this report. Only projects that are already opened in Cellebrite Reader are available for reporting.
Format	<p>Choose report format(s). If multiple formats are chosen, a report will be generated for each format.</p> <div>  <p>Microsoft Excel 2003 reports that contain more than 65,536 rows cannot be opened in their entirety.</p> </div>



Fields in red are mandatory.

- Enter the relevant information in the **Case information** fields.



Listed are the default settings for these fields. See [Setting the case information \(on page 106\)](#). See [Additional report fields \(on page 98\)](#) and [Report defaults \(on page 99\)](#) for other defaults. Additionally, the last 10 values entered in these fields are also available in the drop down.

- Click **Next**. The Report dataset window appears.

## 5.1. Report dataset settings

The dataset settings enable you to choose events between specific dates and what data to include in the report.

The screenshot shows the 'Generate Report' window with the 'Report Dataset' tab selected. The title bar indicates the report is for a 'Samsung GSM\_SM-G955FD Galaxy S8+ Rene Gade'. The left sidebar shows navigation options: General, Report Dataset (selected), Security, and Formatting. The 'Report Dataset' section includes a 'Time range filter' with 'Only events between these dates' checked, and 'From' and 'To' date pickers. Below this is the 'Data types' section with a 'Select/Deselect All' button and a search bar. A list of data types is shown with checkboxes: Applications (3/3), Archives (147/147), Audio (247/247), Autofill (4/4), Call Log (30/30), Chats (60/60), Configurations (50/50), Contacts (372/372), Cookies (690/690), Images (31303/31303), Installed Applications (100/100), Instant Messages (188/188), Locations (9258/9259), Passwords (355/355), Searched Items (14/14), Shortcuts (1/1), Social Media (79/79), and Text (4227/4227). The 'Preferences' section has radio buttons for 'Tags table (4/4)' and 'Tags only (5/5)', with 'Tags table' selected. There is a 'Select tags: 3/3' button. Below this are checkboxes for 'Calculate SHA-2 (256 bit) hash', 'Calculate MD5 (128 bit) hash', 'Include translations', 'Include known files', 'Include Malware scanner results', 'Include Hash set results', 'Redact all attachments', 'Include Hash set results', 'Redact all attachments', 'Redact image thumbnails', 'Include merged items (analyzed data)', 'Include merged items (data files)', 'Include conversation bubbles', 'Include source info indication', 'Include enrichments', 'Hide extraction source indication', and 'Include account package'. At the bottom are buttons for 'Update report settings', 'Previous', 'Next', 'Finish', and 'Cancel'.

To complete the Report dataset settings, perform the following steps:

1. To use the optional time range filter, in the Report range filter area select the **Include only events between these dates** check box, enter the date range and click **Apply** to update the data in the Extraction area.



Select the **include items without a timestamp** check box to include events that do not have a timestamp.


2. Under the **Data types** heading, select the analyzed data and the data files to be included in the report.



The data types listed will vary based on the data available in the selected projects, and include all the data sets listed under Analyzed data and Data types in the project tree.

Next to each data type, the number of items to be included in the report is displayed, alongside the total number of items of this type. The number of items included in the report may change based on your choices in the following sections.

3. Under the **Preferences** heading, select the data to be included in the report.

	Description
Tags table	Select to include tag table in the generated report. To specify which tag labels to include/exclude, click <b>Select tags</b> .
Tags only	Select to include tags only (disables all Data types except for Device info) in the generated report. To specify which tag labels to include/exclude, click <b>Select tags</b> .
<div>Select tags 3/3</div>	<p>Click to select which specific tag labels you want to include/exclude in your report.</p> <p>This is useful in cases where not all examiners should be exposed to all the tagged items in an extraction.</p>
Calculate SHA-2 (256 bit) hash	Select which calculated MD5 and SHA256 hash keys to add to each Data Files item in the generated report. This selection is for the whole report and applies to all projects within the report.
Calculate MD5 (128 bit) hash	To shorten the report generation process of large projects, do not select the Hash options.
Include translations	Select to include translated text.
Include known files	This option enables you to include system images or files in your report. Clear this option to automatically filter out common/known/system images and save critical investigation time that would otherwise be spent reviewing media images such as device icons, or images that are included by default when installing apps.
Include Malware scanner results	Include results from Malware scanner.
Include Hash set results	Include results from hash databases run on the extraction.
Redact image thumbnails	Select to redact image thumbnails from PDF, Word and HTML reports.
Include merged items - analyzed data and data files	<p>Select to include merged data from the Analyzed data section and/or the Data files section of the project tree.</p> <p>The <b>Include merged items</b> options are unselected by default. When these settings are selected, your report will include all items including duplicate items. The total numbers of items selected for the report may change based on these settings.</p>
Include Reader	Select to share UFDR reports with authorized persons using the Reader. The Reader executable will then be included within the report output folder. This option is for the UFDR format only.
Include conversation bubbles	<p>Select to include the chat bubbles of the conversation in the report.</p> <div>  <p>To include the metadata of the chat bubbles make sure that the <b>Include metadata in chat bubbles</b> check box under <b>Settings &gt; Report Defaults</b> is selected.</p> </div>

	Description
<b>Include source info indication</b>	Select to include the source file information (as displayed in the Source file information column).
<b>Include enrichments/Review</b>	Select to include BSSID enrichments and Image classification.
<b>Hide extraction source indication</b>	Select to hide extraction source types. If the check box is cleared, the report will indicate the type of extraction from which the field was obtained e.g., physical, logical, file system. If the check box is selected, the type of extraction will not be displayed. The check box is only relevant with the Multiple extraction feature. For single extractions, the extraction source type will not be displayed.
<b>Include account package</b>	Select to include an account package, which is an export file that contains user credentials.
<b>Include Activity sensor data samples</b>	Select to include the sample data of all detailed measurements of the activity data.

4. Click **Next**. The **security** screen appears.

## 5.2. Report security settings

The report security settings includes two levels of protection:

- » **UFDR protection:** UFDR files hold sensitive, confidential and personal data. Adding this optional security layer enables you to better protect data contained in UFDR files. The Reader and Cellebrite Pathfinder solutions can automatically read UFDR files, even if the security layer is selected. If you are importing UFDR files into third-party tools, you should not select this option.
- » **Password protection:** Apply password protection to Excel, PDF, UFDR, and Word reports.

The screenshot shows the 'Generate Report' dialog box with the 'Security' tab selected. The left sidebar contains 'General', 'Report Dataset', 'Security', and 'Formatting'. Under 'Report Dataset', 'Samsung GSM\_GT-i92...' is selected. Under 'Formatting', 'Table Sorting', 'UFDR (For Cellebrite R...', and 'HTML Report' are listed. The main area is titled 'Security' and contains two sections: 'UFDR protection' and 'Password protection'. 'UFDR protection' has a note 'Protect UFDR files to increase the security of the data' and an 'Apply to:' checkbox for 'UFDR'. 'Password protection' has a note 'Note: Add a password to further enhance report security.', an 'Apply to:' checkbox for 'UFDR', a 'Password:' field with a placeholder 'At least 4 characters', and a 'Confirm password:' field. At the bottom are buttons for 'Update report settings', 'Previous', 'Next', and 'Cancel'.

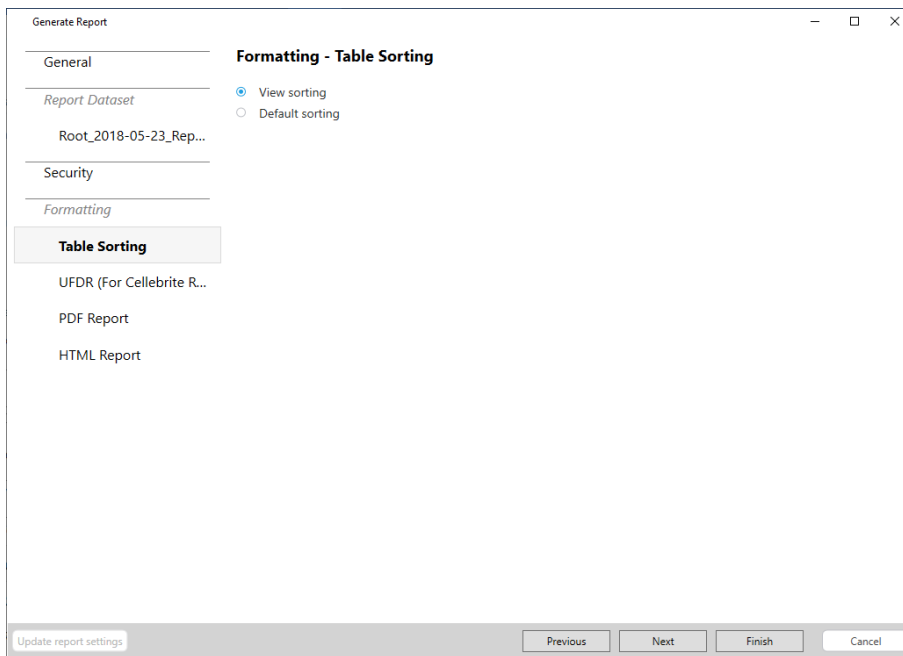
To complete the security settings, perform the following steps:

1. Select the **UFDR** check box if you would like to protect the UFDR file.
2. Choose the report formats to protect with a password (optional).
3. Enter and confirm the password.
4. Click **Next**. The **Layout** screen appears.



## 5.3. Report layout settings

You can set the report layout to meet your agency's requirements.



To complete the layout settings, perform the following steps:

1. Select **Default sorting** to sort the items included in the generated report according to the default sorting set by Cellebrite for each of the Analyzed and Data file types, or clear **Default sorting** to sort the items according to the selected sorting field and the sorting order (ascending or descending) that was set by the user in each of the data display tables.
2. For each format chosen for this report, you can specify report parameters as follows:

Parameters	Description
Disable models categorization	Select to disable the separation and generate a report in which every data item is generated as a single section without subcategories separation. By default, a categorized report in which each category in the data items group is generated as a separate section in the report is generated. For example, when generating a report with Call logs, select the check box to generate the Call logs as a single list, or clear the check box to break it to a separate list for each category of Call logs.
Logo Header	Text area where you can enter and format custom text to appear in the report header before the logo image.
Logo	Click <b>Select Image File</b> to add the logo image to appear in the report header. Supported file formats are: BMP, JPG, GIF, and PNG.

Parameters	Description
Logo Footer	Enter and format custom text to appear in the report footer after the logo image.
Show totals for items not in the report	Add a Total column to the report that displays the total number of items that were excluded from the report.
Show extended deleted state	Include the state (Intact, Deleted, or Unknown) of deleted items in the generated report. When not selected, logs only the state of deleted items as Yes, and is left empty for other states.
Number of lines for email preview	Set the maximum number of lines from each email message to appear in the report.
Display full email body	Display the entire message body.
Number of messages per chat	Set the maximum number of messages per chat message to appear in the report.
Display all chat messages	Display all chat messages in the report.
Font Family	For PDF reports only.
Split HTML report	Ensure that each section of the report starts on a new page. For HTML reports only.
Unprintable characters placeholder	Set the placeholder character to replace the unprintable characters. For Excel and ODS reports only.
The Excel report is compatible with OpenOffice	Select to ensure the Excel report can be opened in OpenOffice. For Excel and ODS reports only.
Generate Contact Identification Data	Select to add a sheet to the Excel report that provides a list of unique contacts based on type. For Excel and ODS reports only.



The parameters displayed will vary based on the report types you have chosen.

### 3. Click **Finish**.



**Finish** is unavailable until all the required fields are filled. A yellow warning icon is displayed next to all required fields that are not yet complete.

- When the report is successfully generated, you are prompted to open the generated report file. The file opens using the associated application to the file format installed in the workstation.



Once a report has been generated for the project, it can be accessed from the Reports section in the project tree. Double click on any of the generated reports to open it in the associated application installed in the workstation. Right click any of the generated reports to open the report file, or select **Open containing folder** to browse the files and folders of the report.

### 5.3.1. Formatting the UFDR file

This window enables you to split the UFDR file and add investigation notes.

#### 5.3.1.1. Splitting the UFDR file

Splitting a UFDR file enables you to divide a file (too large to fit onto storage media) into multiple smaller files, for easy transfer. Select 700 MB for CDs, 4.7 GB for DVD, or a custom file size between 100 MB to 10 GB. When you open the UFDR that has been split into separate files, Physical Analyzer will automatically merge all the files into a single report.

#### To split the UFDR file:

- Select the **Split UFDR file** check box.
- Select the required file size.
- Click **Next**.



To open the split UFDR in Cellebrite Reader select the main UFDR file (\*.ufdr).

#### 5.3.1.2. Adding investigation notes

If required, enter notes in the area provided. These notes will be displayed as a separate tab in the Cellebrite Reader, under the Extraction Summary.

#### 5.3.1.3. Cellebrite Reader report language

In some cases, UFDR reports are shared with colleagues that need to review it in a different language. You can set the default interface language when opening a UFDR report. This allows the Cellebrite Reader to load in the predetermined language without the need to configure this in the Settings screen. The setting is stored for any UFDR that is created. In Cellebrite Reader a message will be displayed if the report language is different from the application.

## 5.4. Generating a Preliminary device report

Generate an 'at a glance' intelligence report that includes parsed device information and user account information. Such reports can be used as a quick reference for the lab, prosecutors, and investigators.

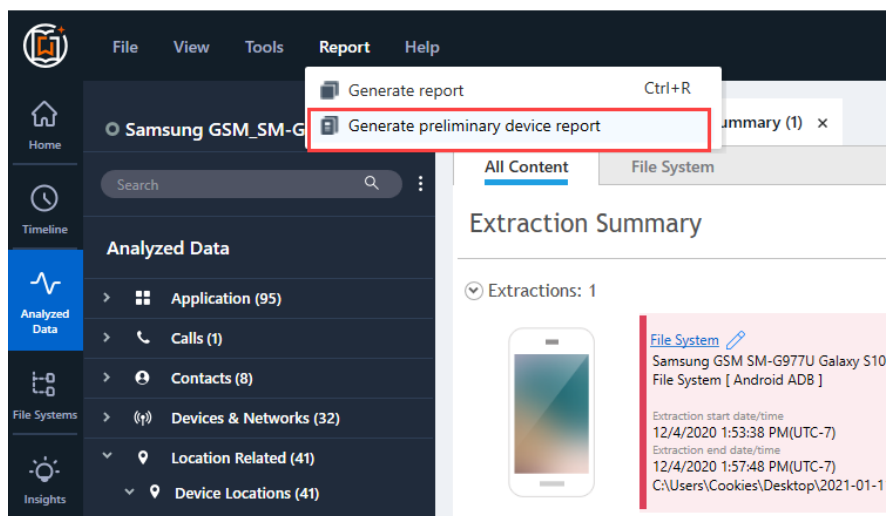
This report includes the device info and a hybrid of the data in the User accounts. This useful 'at a glance' data can inform the investigation units about where other 3rd party evidence may reside and identify if accounts known to the investigation are still on the device.

This PDF report can be emailed to the investigation unit as soon as Cellebrite Reader has finished loading the extraction.

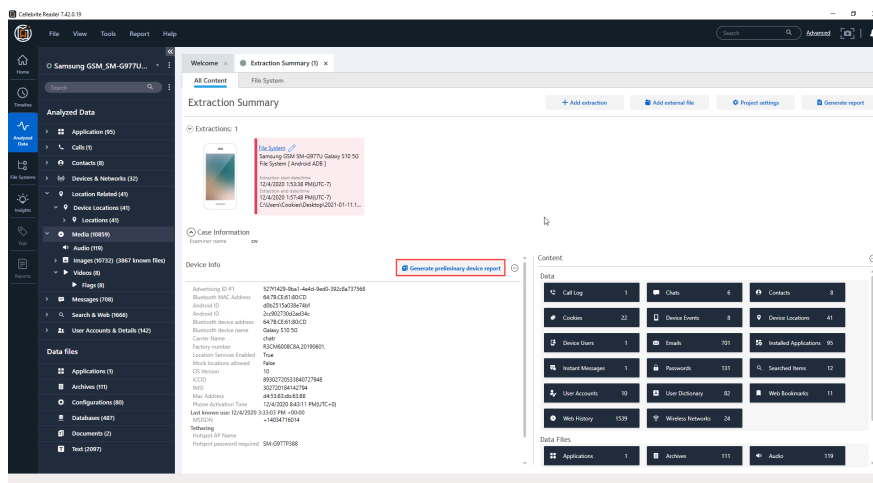
### To generate a Preliminary device report:

There are two ways to generate this report:

- » From main menu, select **Reports > Generate preliminary device report**.



- » In the Extraction summary click **Generate preliminary device report**.



The PDF report will be generated and stored to the default reporting path location.

## 6. Settings

The Settings window provides a set of functional and behavioral setup options used to fine-tune and control the functionality and usability of the application. The settings in the Settings window apply to all the projects open in Cellebrite Reader.



Changes to settings are lost when you close Cellebrite Reader. To save the settings configuration, see [Saving settings \(on page 104\)](#).

To access the Settings window:

» Select **Tools > Settings**.

### 6.1. General settings

Set general application settings in the **General Settings** tab.

## Localization

### To set the interface language of Cellebrite Reader:

- » In the Localization area, in the **Language** list, select the desired interface language.



The **Smart Translator automatic language detection** check box is selected by default and automatically identifies the Smart Translator language to which you want to translate. To manually select the Smart Translator language, clear the check box.

## Time zone

### To shift timestamps and enable daylight saving time:

1. In the Time zone area, from the Time zone settings (UTC) list, select one of the time zones (UTC -11:00 to UTC +14:00) to recalculate network-defined timestamps according to the time zone offset.
2. Select the **Automatically adjust timestamps to UTC+0** check box, to automatically adjust timestamps to UTC+0. This setting is recommended when working on multiple extractions so that all records will be presented according to the same adjusted time zone offset.



This check box is selected by default, but is disabled if the Always adjust timestamps to this time zone check box is selected.

3. To enable the daylight saving time, select the **Use daylight savings** check box.
4. To change the start and end dates for daylight saving time, click **Daylight Saving Time**. For more information on how to change the time zone settings, see [Setting a unified time zone for the project \(on page 104\)](#).

### To use the device's time zone if detected:

- » In the Time zone area, make sure that the **Prompt when device time zone detected** check box is selected.

## Export

### To set the encoding and separator of exported CSV files:

1. In the Export area, select the desired encoding option from the **Encoding** list.
2. Select the desired separator in the **Separator** list



## Dictionary files

### To change the default location of the dictionary files:

- » In the Dictionary files area, click **Change** and select a new location to be used when creating dictionaries.

## Image hash verification

### To automatically verify images on project load:

- » In the Image hash verification area, Select the **Automatically verify images on project load** check box.

## Extractions

### To offer to load a session file (that was saved in the folder where the extraction is located) when opening its corresponding extraction:

- » In the Extractions area, select **Suggest restoring a session file when its corresponding extraction is loaded**.

## Thumbnail cache

### To set the number of extractions for the cached thumbnails in a project:

- » In the Thumbnails area, select the number of extractions from 5 to 20. The default is 10.

### If you do not want to save the cached thumbnails:

- » In the Thumbnails area, clear the **Save cached thumbnails in project** check box.

### If you do not want to load the thumbnail cache to memory (to conserve disk space):

- » In the Thumbnails area, clear the **Load thumbnail cache to memory** check box.

## Views

Selected entities are included in reports or results.

### To select all entities by default to be including in reports, for all views:

- » In the Views area, select the **Check all entities by default** check box.

### To disable the What's new page:

- » In the Views area, select the **Disable What's new** check box.



This setting controls the decoding of **fts\_messages.db** which brings another source of data for WeChat app. This will give the potential to recover deleted and missing WeChat records and can bring duplications.



To control the number of duplicates, unselect the **Parse FTS content from WeChat** check box.

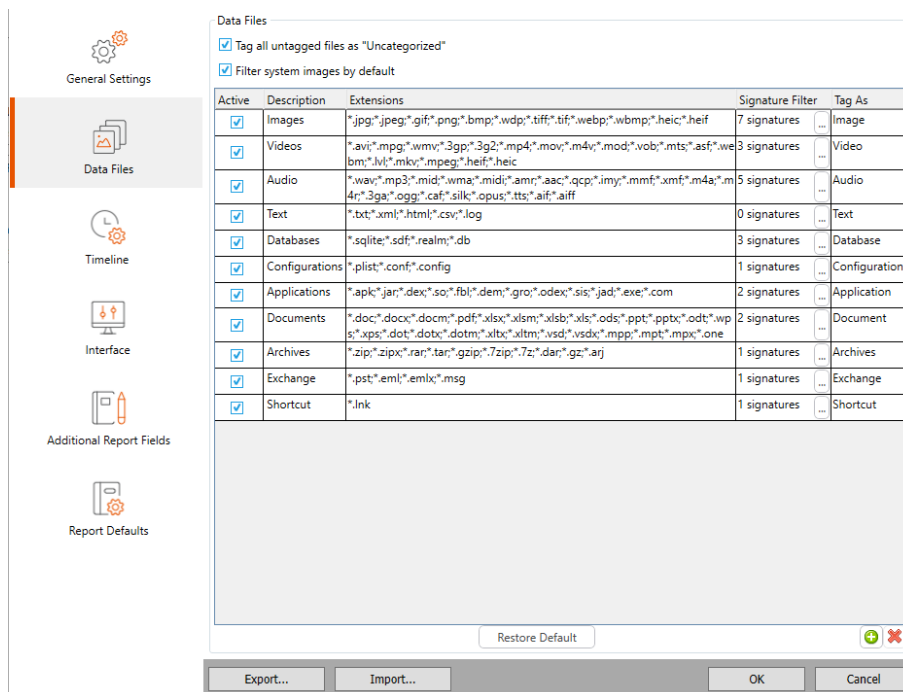
## Network

To disable network traffic (for example, will not check for new software versions):

» In the Network area, clear the **Disable network traffic** check box.

To enable Internet access for apps in the Virtual Analyzer:

## 6.2. Data files



The **Data Files** settings determine the different file and tagging groups under the **Data Files** and **Tags** tree items, and the types of files filtered in each group.

### Tags and filters

- » Select to automatically tag untagged files as "Uncategorized."
- » Select to filter system images by default.

## Data file settings

Every data file record contains the following settings:

- » **Active** - Indicates whether to display (checked) or hide (unchecked) this group of data files in the project tree.
- » **Description** - A descriptive name for the type of data files to be used as the group name under the **Data files** tree item.
- » **Extensions** - The file extensions to be used to filter the data files of this group.
- » **Signature filter** - The header and/or footer signatures to be used to filter the data files of this group.
- » **Tag As** - The tag name to be applied to the data file and used to list the files under **Tags** in the project tree.

### 6.2.1. Data files filtering methods



Groups can be filtered using one or more of the following methods:

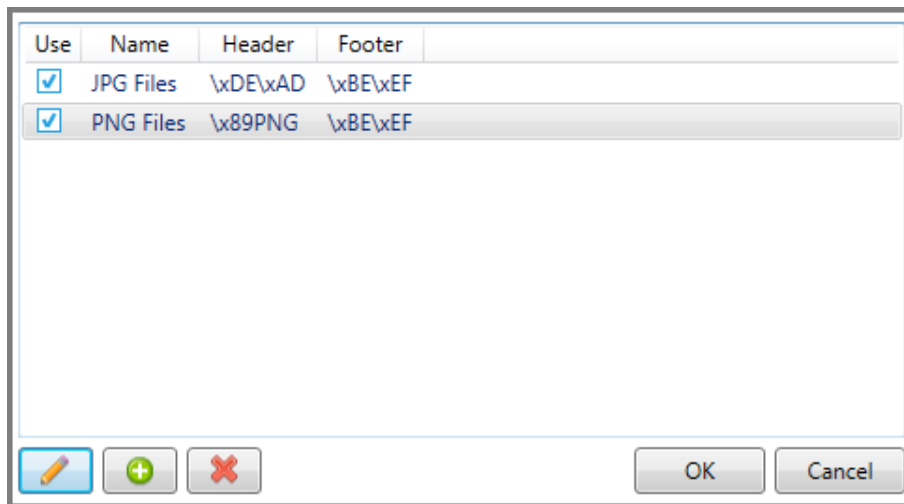
- » **Signature filter:** A signature filter is a definition of the file header and/or footer to be searched, in order to detect a file type and associate it with a specific Date File group. The header and/or footer can be configured in a defined range from the beginning and end of the file respectively by using the offset parameter. For example, a JPEG image starts with the header FF D8 FF and ends with the footer FF D9. Entering this information in the Header and Footer fields of the signature creates a signature that identifies JPEG images.
- » **Extension filter:** An extension filter is a list of common file extensions that are associated with file formats that belong to the specific data file group. For example, the different image file formats can be filtered by the file extensions \*.jpg, \*.jpeg, \*.gif, \*.png or \*.bmp.






### 6.2.2. Managing data files settings

Add new types of data files, and edit and delete existing data file types.

#### 6.2.2.1. Adding a new data file type

1. In the **Data Files** settings, click .  
A new row is added to the list.
2. Select **Active** to display the added data type in the **Data Type** tree item.
3. Click in the new row's **Description** box, and type a file type description.
4. If applicable, in the **Extensions** box, enter the file extensions commonly used by your data file type in the format \*.xxx, and separated by ;.
5. If applicable, in the **Signature filter** box, click  and do any of the following:




- » Click  to add a filtering signature that identifies your data file type.
  - » Click  to edit an existing signature filter.
  - » Click  to delete a signature filter.
6. If applicable, click in the **Tag As** box, click and select a tag name from the list.
  7. To change the order of the data file types, use the arrows  .
  8. To clear the list of data file types you added, leaving only the default types, click **Restore default**.

#### 6.2.2.2. Editing an existing data file record

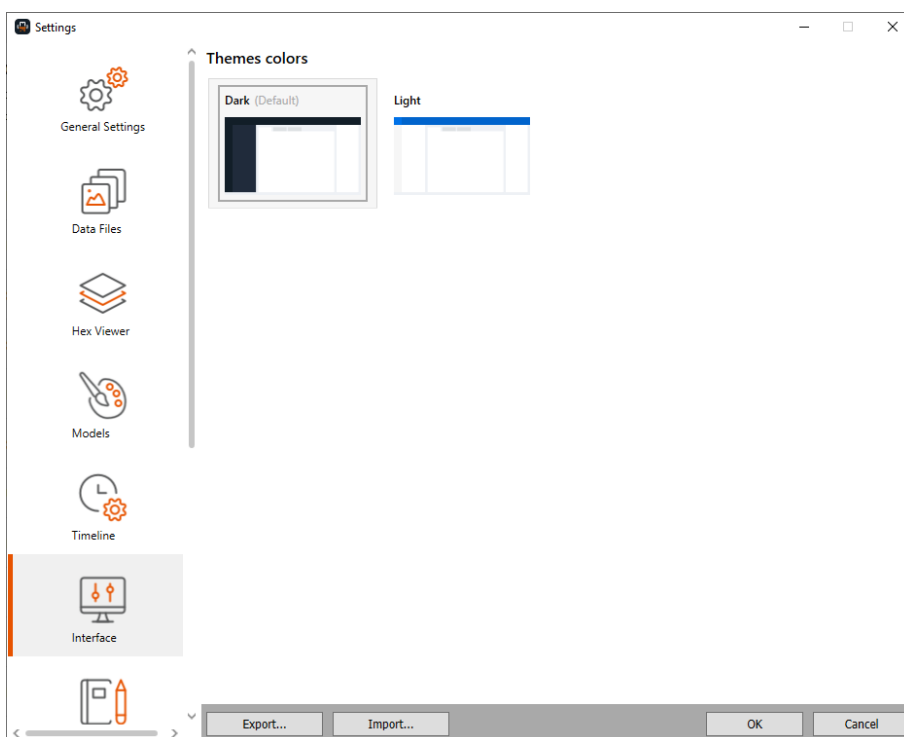
1. Click the row of the data file type that you want to edit.
2. Double-click in the column and row that you want to change, and update the existing settings as desired.

#### 6.2.2.3. Deleting a data file type

1. Click the row of the data file type that you want to delete.
2. Click .

## 6.3. Interface

Set a theme for Cellebrite Reader, either light or dark interface.



Changing the interface configuration settings, will cause the application to close and then restart.

## 6.4. Additional report fields

Name	Required	Type	DefaultValue
Examiner name	<input checked="" type="checkbox"/> Yes	String	
Department	<input type="checkbox"/> Yes	String	
Location	<input type="checkbox"/> Yes	String	

Optional information is user-defined information presented at the beginning of the report. It usually includes information about the case, investigator, and organization details.


Every optional information record consists of the following:

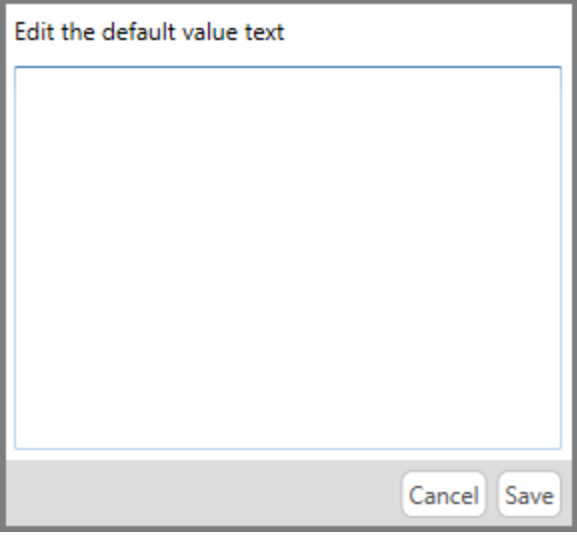
Name	The name of the report field.
Required	Indicates if the field must be filled in order to generate the report.
Type	The types of entry - <b>String</b> or <b>List</b> .
Default value	Default content.


You can add new report fields, and edit and delete fields, as desired.

### 6.4.1. Adding a new report field

1. Click **Add New**.  
A new row is added to the table.
2. In the **Name** column, enter the name label to be displayed.
3. Select **Required** if this field must be filled in order for the user to generate the report.
4. In the **Type** list, select one of the following:
  - » **String** for text entry fields
  - » **List** for a specified list of options
5. In the **Default Value** box, set the default content:

- » For **String** type, type the default string. For a multi-line string, click , enter the default string in the Option Editor, then click **Save**.

A dialog box titled "Edit the default value text" with a large text area for input and "Cancel" and "Save" buttons at the bottom.

- » For a **List** type, click , enter the list items with each item on a separate line, then click **Save**.

### 6.4.2. Editing a report field

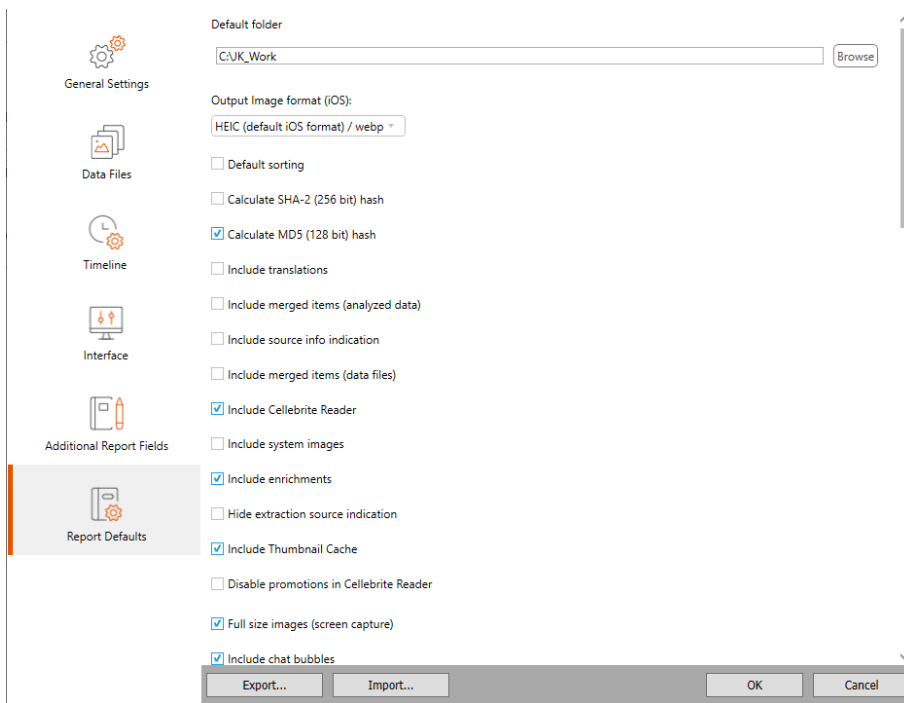
- » To edit a report field, perform steps 2-5 of [Adding a new report field \(on the previous page\)](#), changing the parameters to suit your needs.

### 6.4.3. Deleting a report field

- » To delete a report field, click .

## 6.5. Report defaults

The **Report Defaults** settings enable you to edit the report presentation.



Scroll down to see all the fields.

» In the **Report type** list, select the report type that you want to edit.



## General settings

- » **Default folder** - enter the path to the folder where you want to save reports you generate for this report type.
- » Select **Default sorting** to set sort the items included in the generated report according to the default sorting set by Cellebrite for each of the Analyzed and Data file types or clear **Default sorting** to sort the items according to the selected sorting field and the sorting order (ascending or descending) that was set by the user in each of the data display tables.
- » **Calculate SHA-2 (256 bit) hash** and **Calculate MD5 (128 bit hash)** - Select which calculated MD5 and SHA256 hash keys to add to each Data Files item in the generated report. Do not select these options to shorten the report generation process of large projects.
- » **Include translations** - Select to include any translated text in the report.
- » **Include merged items (analyzed data)** - Select to include merged data from the Analyzed Data area.
- » **Include merged items (data files)** - Select to include merged data from the Data Files area.
- » **Include Reader** - Select to share UFDR reports with authorized persons using the Reader. This option is for the UFDR format only. The Reader executable will then be included within the report output folder.
- » **Include system images** - Select to include system images (images that come with the device or as part of an app installation) as well as non-system images.
- » **Include account package** - Select to include an account package with user credentials, which can be used by UFED Cloud.
- » **Include enrichments** - Select to include BSSID enrichment data.
- » **Hide extraction source indication** - Select to hide the source file information.
- » **Include Thumbnail Cache** - Select to include the thumbnail cache.
- » **Disable promotions in Reader** - Select to disable promotions in Cellebrite Reader.
- » **Full size images (screen capture)** - Select to include full size images from the Screen capture tool.
- » **Include chat bubbles** - Select to include the chat bubbles of the conversation in the report. Select **Include metadata in chat bubbles** to include the metadata.
- » **Disable models categorization** - select to disable the separation and generate a report in which every data items is generated as a single section without subcategories separation. By default, a categorized report in which each category in the data items group is generated as a separate section in the report is generated. For example, when generating a report with Call logs, select the check box to generate the Call logs as a single list, or clear the check box to break it to a separate list for each category of Call logs.

For Excel reports, set the following:

- » **Unprintable characters placeholder** - Set the placeholder character to replace the unprintable characters.
- » **Output File Format** - Set the output file format of the spreadsheet file to either:
  - \* **XLSX** - The current Excel file format.
  - \* **XLS** - The legacy file format of Excel.
  - \* **ODS** - The spread file format of OpenOffice.
- » **The excel report is compatible with OpenOffice** - Select to ensure the Excel report can be opened in OpenOffice.
- » **Generate Contact Identification Data** - Select to add a sheet to the Excel report that provides a list of unique contacts based on type.

For HTML reports, set the following:

- » **Logo Header** - Enter and format custom text to appear in the report header before the logo image.
- » **Logo** - Click **Select Image File** to add the logo image to appear in the report header. Supported file formats are: BMP, JPG, GIF, and PNG.
- » **Logo Footer** - Enter and format custom text to appear in the report footer after the logo image.
- » **Show totals for items not in the report** - Add a **Total** column to the report that displays the total number of items that were excluded from the report.
- » **Show extended deleted state** - Include the state (**Intact**, **Deleted**, or **Unknown**) of deleted items in the generated report. When not selected, logs only the state of deleted items as Yes, and is left empty for other states.
- » **Number of lines for email preview** - Set the maximum number of lines from each email message to appear in the report.
- » **Display full email body** - Display the entire message body.
- » **Number of messages per chat** - Set the maximum number of lines per chat message to appear in the report.
- » **Display all chat messages** - Display all chat messages in the report.
- » **Split HTML report** - Set each section of the report to start on a new page.

For PDF reports, set the following:

- » **Logo Header** - Enter and format custom text to appear in the report header before the logo image.
- » **Logo** - Click **Select Image File** to add the logo image to appear in the report header. Supported file formats are: BMP, JPG, GIF, and PNG.
- » **Logo Footer** - Enter and format custom text to appear in the report footer after the logo image.
- » **Show totals for items not in the report** - Add a **Total** column to the report that displays the total number of items that were excluded from the report.
- » **Show extended deleted state** - Include the state (**Intact**, **Deleted**, or **Unknown**) of deleted items in the generated report. When not selected, logs only the state of deleted items as Yes, and is left empty for other states.
- » **Number of lines for email preview** - Set the maximum number of lines from each email message to appear in the report.
- » **Display full email body** - Display the entire message body.
- » **Number of messages per chat** - Set the maximum number of lines per chat message to appear in the report.
- » **Display all chat messages** - Display all chat messages in the report.

For Word reports, set the following:

- » **Logo Header** - Enter and format custom text to appear in the report header before the logo image.
- » **Logo** - Click **Select Image File** to add the logo image to appear in the report header. Supported file formats are: BMP, JPG, GIF, and PNG.
- » **Logo Footer** - Enter and format custom text to appear in the report footer after the logo image.
- » **Show totals for items not in the report** - Add a **Total** column to the report that displays the total number of items that were excluded from the report.
- » **Show extended deleted state** - Include the state (**Intact**, **Deleted**, or **Unknown**) of deleted items in the generated report. When not selected, logs only the state of deleted items as Yes, and is left empty for other states.
- » **Number of lines for email preview** - Set the maximum number of lines from each email message to appear in the report. The report includes links to text files containing the entire email.
- » **Display full email body** - Set to display the entire message body.
- » **Number of messages per chat** - Set the maximum number of lines per chat message to appear in the report.
- » **Display all chat messages** - Display all chat messages in the report.

## 6.6. Saving settings

Save your settings to reuse later, or to share with another user.

1. In the Settings window, click **Save Configuration**.
2. In the Save As window, browse to the location where you want to save your settings configuration, and click **Save**.

The settings are saved as a Cellebrite Reader Settings Configuration File (\*.cnf).

## 6.7. Loading settings

Load your saved settings configuration.

1. In the Settings window, click **Load Configuration**.
2. In the Open window, browse to the location where your settings configuration is saved, select the configuration (\*.cnf), and click **Open**.

The settings are applied in the Settings window.

## 6.8. Setting project settings

Set unified time zone and case information for each project.

### 6.8.1. Setting a unified time zone for the project

During extraction, one time stamp per event is extracted.

For outgoing events, the time stamp is typically taken from one of the following sources:

- » User-defined device time (where the device time has been manually set by the user: timestamps are displayed without the unified time (UTC).
- » Network-defined device time (where the device time is automatically set by the network): timestamps are displayed with the unified time (UTC).

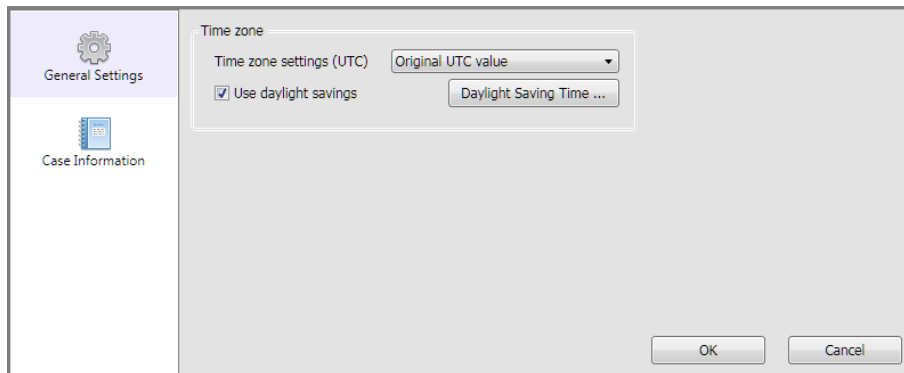
For incoming events, the time stamp is typically taken from the network-defined time (the time stamp assigned by the network); timestamps are displayed with the unified time (UTC).

Network-defined time stamps are subject to the time zones in which the event occurred.

Apply a unified time zone to the project to recalculate all network-defined time stamps according to the selected time zone in order to consolidate the events and view them sequentially in Cellebrite Reader.

## To apply a unified time zone to the project:

1. Do one of the following:
  - » In the project **Extraction Summary** tab, click **Project settings**.
  - » Go to **Tools > Project settings**.



2. From the **Time zone settings (UTC)** list, select:
  - » **Original UTC value** to show time stamps as recorded.
  - » One of the time zones (**UTC -12:00** to **UTC +13:00**) to recalculate network-defined time stamps according to the time zone offset.




User-defined time stamps are not included in these recalculations, and are displayed as recorded.

3. To enable or disable the daylight saving time, select or clear the **Use daylight savings** check box.
4. To change the start and end dates for daylight saving time, click **Daylight Saving Time**.

	Start	End
2020	Select a date [15] 00:00	Select a date [15] 00:00
2019	Select a date [15] 00:00	Select a date [15] 00:00
2018	Select a date [15] 00:00	Select a date [15] 00:00
2017	Select a date [15] 00:00	Select a date [15] 00:00
2016	Select a date [15] 00:00	Select a date [15] 00:00
2015	Select a date [15] 00:00	Select a date [15] 00:00
2014	Select a date [15] 00:00	Select a date [15] 00:00
2013	Select a date [15] 00:00	Select a date [15] 00:00
2012	Select a date [15] 00:00	Select a date [15] 00:00
2011	Select a date [15] 00:00	Select a date [15] 00:00
2010	Select a date [15] 00:00	Select a date [15] 00:00

Back to last saved data    Back to original data    Save    Cancel


- a. For the year that you want to change, use the calendar to select the start and end dates, or edit the dates directly. You can use the  button to remove certain years.
  - b. Click **Back to last saved data** to reset the table to the last time that you saved the data, click **Back to original data** to return the table to its default settings, or click **Save** to save the table with any changes that you made.
5. Click **OK**.



The project is recalculated according to the selected unified time zone, and the new time zone is applied to the network-defined time stamps. Time stamps of events displayed in Cellebrite Reader windows and any subsequently-generated reports reflect the selected unified time zone.

## 6.8.2. Setting the case information

1. Case information settings are saved with the project. The case number appears with the extraction information on the Welcome tab.
2. In the project **Extraction Summary** tab, click **Project settings**.
3. Click **Case Information**.

Name	Required	Type	DefaultValue
Case number	<input type="checkbox"/> Yes	String	1234
Case name	<input type="checkbox"/> Yes	String	Drugs
Evidence number	<input type="checkbox"/> Yes	String	4567
Notes	<input type="checkbox"/> Yes	String	

4. Click **Add New**.
5. In the **Name** column, enter the case name.
6. Select **Required** if this field must be filled.
7. In the **Type** list, select one of the following:
  - » **String** for text entry fields
  - » **List** for a specified list of options
8. In the **Default Value** box, set the default content:
  - » For **String** type, type the default string. For a multi-line string, click , enter the default string in the Option Editor, then click **OK**.

- » For a **List** type, click , enter the list items with each item on a separate line, then click **OK**.
9. To add more rows, click **Add New**, and repeat steps 4-7.
  10. To remove the entry, click .
  11. To restore the default settings, click **Restore default settings**.

## 7. Menus

This sections describes the menus and commands.

[File menu \(below\)](#)

[View menu \(on the next page\)](#)

[Tools menu \(on page 110\)](#)

[Report menu \(on page 111\)](#)

[Help menu \(on page 112\)](#)

### 7.1. File menu

<b>Open UFDR file</b>	Open a file for analysis using the standard analysis process.
<b>Recent</b>	Displays a list of recent projects.
<b>Add external file</b>	Include related artifacts in your case such as search warrants, additional images and relevant documents. See <a href="#">Adding external files (on page 17)</a> .
<b>Close tabs</b>	Close all the tab windows for a specific project.
<b>Close</b>	Closes the currently active project.
<b>Save project session</b>	Saves the active project information generated by the user as a Cellebrite Reader Session File (*.pas). See <a href="#">Saving a project session (on page 16)</a> .
<b>Load project session</b>	Loads a Cellebrite Reader Session File (*.pas) onto an open project in the project tree.
<b>Exit</b>	Closes the Cellebrite Reader and all active sessions.



## 7.2. View menu

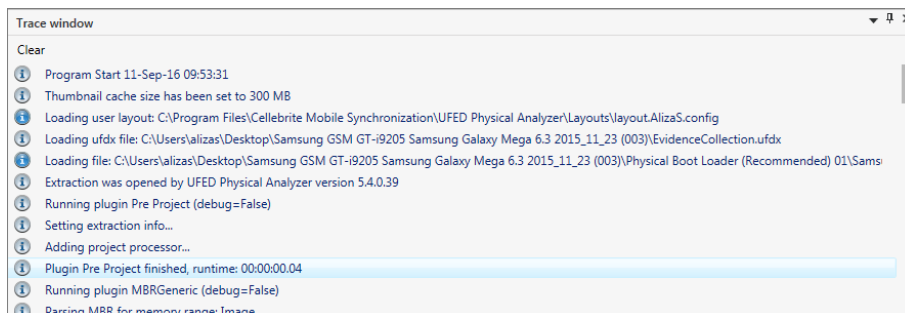
Welcome screen	Displays the <b>Welcome</b> tab. See <a href="#">Welcome tab [on page 35]</a> .
Trace window	Show/hide the trace panel at the bottom of the data display area.

### 7.2.1. Viewing the trace window

Show the Trace window at the bottom of the data display area to view a log of the actions performed in your session by you or by Cellebrite Reader, such as plug-in activation.

1. In the **View** menu, select **Trace window**.

The Trace window appears below the data display area.



2. To clear the log, in the Trace window, click **Clear**.
3. To close the Trace window, click **✕**.

The Trace window can be hidden or displayed.

- » To pin the Trace window open, click **📌**.
- » To unpin the Trace window, click **📌**.
- » To view the Trace window when hidden, select or mouse over the tab.

## 7.3. Tools menu

<b>Enrichment of BSSID and cell IDs</b>	Opens the Enrichment database sub-menu, from where you can install the database, import and export XML files with BSSID and cell tower data, as well as online enrichment. See <a href="#">Enrichment of BSSID and cell IDs (on page 63)</a> .
<b>Manage tags</b>	Opens the Manage tags window. See <a href="#">Tags (on page 66)</a> .
<b>Generate dictionary files</b>	Create alphanumeric files with all the words in a decoded project. See <a href="#">Generating dictionary files (on page 65)</a> .
<b>Settings</b>	Opens the application settings window. See <a href="#">Settings</a> .
<b>Project settings</b>	Set unified time zone and case information for each project. See <a href="#">Setting project settings (on page 104)</a> .

## 7.4. Report menu

Generate Report	Generates a report summary of all information found by the analysis process. See <a href="#">Generating a report (on page 79)</a> .
Generate preliminary device report	Generates an 'at a glance' intelligence report that includes parsed device information and user account information. See <a href="#">Generating a Preliminary device report (on page 89)</a> .

## 7.5. Help menu

<b>Supported apps</b>	Lists the supported applications and verified versions for Android, BlackBerry, iOS, and Windows Phone devices.
<b>Manual</b>	Opens the user manual.
<b>Check for new version</b>	Check for new software version if connected to the Internet.
<b>Zip log files</b>	Zips the log files and opens the folder where the zipped log files are saved.
<b>Zip log files with system information</b>	Zips the log files and includes detailed information about the operating system, drivers, application data, event logs etc. This information can be used to analyze report cases.
<b>License agreement</b>	Opens the software license agreement.
<b>About</b>	Provides information about the installed Cellebrite Reader version.

## 8. Glossary

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### C

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#### CAS

Cellebrite Advanced Services (CAS) offers customers the ability to recover valuable evidence from heavily damaged, locked or encrypted devices.

#### Cellebrite UFED 4PC

Enables users to deploy extraction capabilities on Windows based tablets, laptops, and desktop computer systems. It performs physical, logical, file system and password extractions on a wide range of devices.

#### Cellebrite UFED Touch

Enables the simplified extraction of mobile device data. Depending on the license purchased, it performs physical, logical, file system and password extractions on a wide range of devices.

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### P

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#### Physical/Logical Analyzer

An analysis and reporting tool for logical, file system and physical extractions. This software solution provides users with the capability to extract data, perform advanced analysis, decoding and reporting and presenting the results in a clear and concise manner.

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### U

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#### UFED

Universal Forensic Extraction Device

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